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DEPARTMENT OF THE ARMY

Procurement Programs



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Committee Staff Procurement Backup Book

FY 1996 / 1997 BIENNIAL BUDGET ESTIMATE

OTHER PROCUREMENT, ARMY

ACTIVITY 3, OTHER SUPPORT EQUIPMENT

APPROPRIATION

Date February 1995

Reports Control Symbol
DD-COMP (AR) 1092

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OTHER PROCUREMENT, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of vehicles, including tactical, support and nontracked combat vehicles; communications and electronics equipment; other support equipment; initial spare parts, ordnance, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,256,601,000, to remain available for obligation until September 30, 1998.

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OTHER PROCUREMENT, ARMY

SECTION 3

Comparison of Program Requirements and Financing

Comparison of FY1995 program requirements as reflected in the FY1995 President's Budget with FY1995 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1995 financing as reflected in the FY1995 President's Budget with FY1995 financing as shown in the FY1996 President's Budget.

Comparison of FY1994 program requirements as reflected in the FY1995 President's Budget with FY1994 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1994 financing as reflected in the FY1995 President's Budget with FY1994 financing as shown in the FY1996 President's Budget.

**COMPARISON OF FY 1995 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY 1995 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement, Army	FY 1995		Increase or (Decrease)
	Requirements Per President's Budget	Requirements Per President's Budget	
Activity 1 - Tactical and Support Vehicles	559,579	555,669	(3,910)
Activity 2 - Communications and Electronics Equipment	1,554,699	1,584,270	29,571
Activity 3 - Other Support Equipment	<u>575,955</u>	<u>528,890</u>	(47,065)
	2,690,233	2,668,829	(21,404)

EXPLANATION BY ACTIVITY

Activity 1 - Tactical And Support Vehicles - the net decrease (\$-3,910) resulted from Congressionally approved and below threshold reprogramming.

Activity 2 - Communications and Electronics Equipment - the net increase (\$+29,571) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - the net decrease (\$-47,065) resulted from Congressionally approved and below threshold reprogramming.

**COMPARISON OF FY 1995 FINANCING
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH FY 1995 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
(In Thousands of Dollars)**

Appropriation	FY 1995		FY 1996	
	Financing Per FY 1995	President's Budget	Financing Per FY 1996	President's Budget
Other Procurement, Army				
Program Requirements (Total)	2,866,833		2,875,029	
Program Requirements (Service Account)	2,690,233		2,668,829	
Program Requirements (Reimbursable)	176,600		206,200	
Less:				
Anticipated Reimbursements			(206,200)	
Unobligated balance available to finance new budget plans		(176,600)	(5,100)	
Unobligated balance transferred to other accounts			5,100	
BUDGET AUTHORITY				
Appropriation	2,690,233		2,668,829	

**COMPARISON OF FY 1994 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY1994 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement	FY 1994		FY 1996		Increase or Decrease)
	Requirements Per President's Budget	Requirements Per President's Budget	Requirements Per President's Budget	Requirements Per President's Budget	
Activity 1 - Tactical and Support Vehicles	743,588	751,885			8,297
Activity 2 - Communications and Electronics Equipment	1,701,354	1,710,414			9,060
Activity 3 - Other Support Equipment	<u>443,624</u>	<u>433,156</u>			<u>(10,468)</u>
	2,888,566	2,895,455			6,889

EXPLANATION BY ACTIVITY

Activity 1 - Tactical and Support Vehicles - The net increase (\$+8,297) resulted from Congressionally approved and below threshold reprogramming.

Activity 2 - Communications and Electronics Equipment - The net increase (\$+9,060) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - The net decrease (-\$10,468) resulted from Congressionally approved threshold reprogramming.

**COMPARISON OF FY 1994 FINANCING
AS REFLECTED IN THE FY1995 PRESIDENT'S BUDGET
WITH THE FY 1994 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement, Army	FY 1994 Financing Per FY 1995 President's Budget	FY 1994 Financing Per FY 1996 President's Budget
	President's Budget	President's Budget
Program Requirements (Total)	3,191,166	2,983,409
Program Requirements (Service Account)	2,888,566	2,895,455
Program Requirements (Reimbursable)	302,600	87,954
Less:		
Anticipated Reimbursements	(302,600)	(87,954)
Add:		
Unobligated balance available to finance new budget plans		(4,000)
Unobligated balances transferred to other accounts		(400)
Reprogramming From/To Prior Year Budget Plans		(6,683)
Unobligated Balances available to finance subsequent year budget plans		5,100
Unobligated balance expiring		7,083
BUDGET AUTHORITY		
Appropriation	2,888,566	2,984,509

*****UNCLASSIFIED*****
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1
DATE: 093016 25 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)										
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	CHEMICAL DEFENSIVE EQUIPMENT												
* 107	SIMP COLL PROT EQUIP M20 (M97400)	A				134	1527						
* 108	COLL PROT EQUIP, NBC TEMPER, TENT M28 (SX8001)	A					4366						
* 109	MASK, PROTECTIVE, NBC M40/M42 (MA5000)	A					34495						
* 110	REMOTE SENSING CHEMICAL AGENT ALARM XM21 (M96800)	B						156	18839				
* 111	IMPROVED CHEMICAL AGENT MONITOR (S02200)	A							1171				
* 112	AUTO CHEMICAL AGENT ALARM (ACADA), XM22 (M98800)	B						160	5455				
* 113	DECONTAMINATE APP PUR DR LT WT M17 (M67400)	A				515	7228						
114	GEN SMK MECH:MTRZD DUAL PURP XM56 (M99103)	A				12	4900	60	12410			70	13014
115	GENERATOR, SMOKE, MECH XM58 (M99107)	A								34	12698	34	12050
116	GEN SET, SMOKE, MECH: PUL JET, XM157 (M99104)	A								170	5214	118	3614
* 117	RADIATION MONITORING SYSTEM (OPA-3) (MB3001)						8291						
* 118	JOINT BIOLOGICAL DEFENSE PROGRAM (MA0800)							20416					
	SUB-ACTIVITY TOTAL						60807				17912		28678
	BRIDGING EQUIPMENT												
119	RIBBON BRIDGE (MA8890)										3828		4472
	SUB-ACTIVITY TOTAL										3828		4472

* Transferred to Defense in FY96 and beyond

*****UNCLASSIFIED*****
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1
DATE: 093016 25 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(THOUSANDS OF DOLLARS)								
			(DOLS) FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
ENGINEER (NON CONSTRUCTION) EQUIPMENT											
120	DISPENSER, MINE M139 (G39100)	A	953000	166	15933	179	16194		953	35	4273
121	METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)	B								21	6755
SUB-ACTIVITY TOTAL											
COMBAT SERVICE SUPPORT EQUIPMENT											
122	AIR CONDITIONERS VARIOUS SIZE/ CAPACITY (MF9300)	A			6142		2995		3176		1520
123	STANDARD INTEGRATED CMD POST SYSTEM (MX1010)	B			20250						
124	CHEM/BIO PROTECTIVE SHELTER (R12300)	B		29	6989						
125	SPACE HEATER (M19600)	A	4965	564	2812	290	1440	485	2410		
126	SOLDIER ENHANCEMENT (MA6800)				9200						
127	FORCE PROVIDER (M80200)	A	6137500	2	10664	2	12275	2	12127		
128	REFRIGERATION EQUIPMENT (MA5800)	A			2166		2562		5469		
129	ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)	A			2782		4438		2222		2796
SUB-ACTIVITY TOTAL											
PETROLEUM EQUIPMENT											
130	LAB PETROLEUM MODULAR BASE (M68500)	A	2786000	1	2343	1	2786				
131	INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)	A			266		3652		1115		1106
132	HEMTT AVIATION REFUELING SYSTEM (R21900)	A	26000	113	2965	21	546				

*****UNCLASSIFIED*****
 DEPARTMENT OF THE ARMY
 FY 96 PROCUREMENT PROGRAM
 FY96 PRESIDENT BUDGET

EXHIBIT P-1
 DATE: 093016 25 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 96 UNIT COST	(THOUSANDS OF DOLLARS)							
				FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
133	ITEMS LESS THAN \$2.0M (POL) (ML5330)	A		11050		8611		5537			9043
	SUB-ACTIVITY TOTAL			11316		17571		9984			10149
	WATER EQUIPMENT										
134	FWD AREA WTR POINT SUP SYSTEM (M18100)	A	18189			155	2711	148	2692		
135	SMALL MOBILE WATER CHILLER (SMWC) (M15700)	A	10214			185	1893	387	3953		
136	ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)	A		4067		2995		2394			3089
	SUB-ACTIVITY TOTAL			4067		7599		9039			3089
	MEDICAL EQUIPMENT										
137	COMBAT SUPPORT MEDICAL (MM1000)			20751		19209		14310			16484
	SUB-ACTIVITY TOTAL			20751		19209		14310			16484
	MAINTENANCE EQUIPMENT										
138	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP) (M61500)	A	25042			118	2812	71	1778	66	1754
139	TOOL OUTFIT HYDRAULIC REPAIR 3/4 TRL MTD (G39200)	A				23	2084				
140	ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)	A		7018		1144		1450			1393
	SUB-ACTIVITY TOTAL			7018		6040		3228			3147
	CONSTRUCTION EQUIPMENT										
141	COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200)	A		109	13383						
142	ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	A	151382			31	5834	47	7115		

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLLS)						(THOUSANDS OF DOLLARS)					
			FY 96 UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
143	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)													
144	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	A						18	9938	15	8014			
145	ITEMS LESS THAN \$2.0M (CONST EQUIP) (M15350)	A			3954		3372		1981		397			
	SUB-ACTIVITY TOTAL				17337		9206		21021		10398			
	RAIL FLOAT CONTAINERIZATION EQUIPMENT													
146	PUSHER TUG, SMALL (M44500)	B						1	3576	2	7152			
147	FLOATING CRANE, 100-250 TON (M32400)	B								1	14900			
148	CAUSEWAY SYSTEMS (R97500)	A					993							
149	RAILWAY CAR, FLAT, 100 TON (M37000)	A	49441	187	15057	241	11534	238	11767	297	15042			
150	ITEMS LESS THAN \$2.0M (FLOAT/ RAIL) (M15355)	A			1999		2230		3602		5957			
	SUB-ACTIVITY TOTAL				17056		14757		18945		43051			
	GENERATORS													
151	GENERATORS AND ASSOCIATED EQUIP (M49800)	A			24797		25206		13761		15715			
	SUB-ACTIVITY TOTAL				24797		25206		13761		15715			
	MATERIAL HANDLING EQUIPMENT													
152	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	A						33	10928					
153	ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)							112	14403	157	16589			
154	ITEMS LESS THAN \$2.0M (MHE) (M15365)	A			5816		4694		2843		2772			

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLLS) FY 96 (THOUSANDS OF DOLLARS)									
			UNIT COST	FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	SUB-ACTIVITY TOTAL				5816		4694		28174		19361	
	TRAINING EQUIPMENT											
155	COMBAT TRAINING CENTERS SUPPORT (MA6600)				22919		21086		22208		5609	
156	TRAINING DEVICES, NONSYSTEM (NA0100)				78774		85323		71561		102660	
157	SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)	A					31808		30655		88520	
158	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (NA0174)	B									22152	
	SUB-ACTIVITY TOTAL				101693		138217		124424		218941	
	OTHER SUPPORT EQUIPMENT											
159	RECONFIGURABLE SIMULATORS (KA6000)	B							12616		16787	
160	PHYSICAL SECURITY SYSTEMS (OPA3) (NA0780)	A							6190		6220	
161	SYSTEM FIELDING SUPPORT (OPA-3) (NA0070)				19187		13865		10030		14036	
162	BASE LEVEL COM'L EQUIPMENT (HB7000)				17268		7955					
163	ARMS CONTROL COMPLIANCE (SX1000)				4759		3496					
164	COMBINED DEFENSE IMPROVEMENT PROJECT (CDIP (MA0470)				200		3120					
165	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)				40937		36186		21911		15282	
166	PRODUCTION BASE SUPPORT (OTH) (MA0450)				9909		1873		1835		1991	
167	INDUSTRIAL MODERNIZATION INCENTIVE PROG (MA9300)				1							

*****UNCLASSIFIED*****
 DEPARTMENT OF THE ARMY
 FY 96 PROCUREMENT PROGRAM
 FY96 PRESIDENT BUDGET *

EXHIBIT P-1
 DATE: 093016 25 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE NO.	ITEM NOMENCLATURE	ID	(DOLLS) FY 96 UNIT COST								(THOUSANDS OF DOLLARS)			
			FY 94 QTY	FY 94 COST	FY 95 QTY	FY 95 COST	FY 96 QTY	FY 96 COST	FY 97 QTY	FY 97 COST				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
168	SPECIAL EQUIPMENT FOR USER TESTING (MA6700)			4928		10442		9165				14090		
169	ITEMS LESS THAN \$2.0M (OTH SPT EQ) (ML5390)		1001											
170	OPA INITIAL SPARES (MY0035)					67960								
171	TRACTOR VAPOR (MA8975)						2223					3973		
172	NATURAL GAS UTILIZATION (MA9760)			10000		2482								
173	CLOSED ACCOUNT ADJUSTMENTS (MA9999)			1										
	SUB-ACTIVITY TOTAL			108191		147379		63970				72379		
	ACTIVITY TOTAL			433156		529590		351224				481214		

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Landing Craft, Mech 8T (SLEP)	1.2									1.2
Landing Craft, Mech 8T (Equip Upg)			0.2	0.4						0.6
Floating Machine Shop (Modernize)	0	1.4								1.4
Crane Barge, 100T (Modernization)		1.3								1.3
Barge Deck Cargo (Modernization)		0.3								0.3
Logistics Support Vessel (Modern)	0	1.4								1.4
Light Amphib Resup Carg 60 (SLEP)			0	0.9						0.9
Tug 100' (Equip Upgrade)			3.0	2.0						5.0
Marine CEN Equip Upg (Watercraft)				0.6						0.6
Distrib Illumin Sys, Elec (Clr Break)	0.3									0.3
Landing Crt Utdl 2000 (Halon Remo)		1.0								1.0
ROWPU Barge (Halon Removal)		0.2								0.2
Landing Crt Utdl 1600 (Halon Remo)		0.2								0.2
SUBTOTAL FOR BA 3	1.5	5.8	3.2	3.9	0	0	0	0		14.4

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Logistic Sup Vessel (Halon Removal)		0.2								0.2
Large Tug (Halon Removal)		0.2								0.2
AN/TSC-85 (Air Conditioner/CFC)	0.3	0.3								0.6
AN/TSC-93 (Air Conditioner/CFC)	0.5	0.5								1.0
AN/ASM-189 (Air Conditioner/CFC)	3.5	0.4								3.9
AN/ASM-190 (Air Conditioner/CFC)	1.9	0.1								2.0
AN/ASM-141 (Air Conditioner/CFC)	0.2									0.2
ESC-146 (Air Conditioner/CFC)	6.1	0.5								6.6
ESC-38 (Air Conditioner/CFC)	0.3									0.3
AN/ASM-92 (Air Conditioner/CFC)	0.3	0.4								0.7
Land Cn Util 2000 (Refrig/CFC)		0.9								0.9
Logistic Sup Vessel (Refig/CFC)		0.4								0.4
Land Cn Util 1600 (Refig/CFC)		0.3								0.3
SUBTOTAL FOR BA 3	13.1	4.2	0	0	0	0	0	0	0	17.3

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Tug 128' (Refrig/CFC)	0	0.2								0.2
Tug 100' (Refrig/CFC)		0.4								0.4
Tug 65' (Refrig/CFC)		0.3								0.3
Crane 100 Ton (Refrig/CFC)		0.4								0.4
Crane 60 Ton (Refrig/CFC)		0.04								0.04
Floating Machine Shop (Refrig/CFC)		0.1								0.1
Refrig Equip (Power Generation)			0.7							0.7
Laundry Unit (Laundry Water Reuse)			0.1							0.1
Recompress Chamber Diving (E-Upg)		0.3	0.4							0.7
Deploy Med Sys (Air Condition Upg)	0.02									0.02
Micro-Climatic Cooling System		1.6	1.3							2.9
System Block Phase 3			1.8	1.9		0	0.3	0.5		4.5
SUBTOT BA 3 (P 3/3)	0.02	3.34	2.5	1.8	1.9	0	0.3	0.5		10.36
SUBTOT BA 3 (P 2/3)	1.4	5.8	3.2	3.9	0	0	0	0		14.4
SUBTOT BA 3 (P 1/2)	13.1	4.2	0	0	0	0	0	0		17.3
TOTAL FOR BA 3	14.62	13.34	5.7	5.7	1.9	0	0.3	0.5		42.06

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T						DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Coll Prot Equip, NBC TEMPER, TENT M28 (SX8001)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST(IN MILLIONS)		4.4	10.2						
<p>DESCRIPTION: The M28 is a highly transportable collective protective liner system for the Tent Extendable Modular Personnel (TEMPER). The modular system consists of: (1) entry/exit airlock(s), (2) liquid/vapor agent resistant liner sections, (3) support kit(s) containing a motor, blower, ducting and ancillary equipment, (4) recirculation filter(s) inside the shelter and (5) NBC filter(s). A tunnel airlock is available for litter patient entry/exit. Like the TEMPER, the M28 components are complexed into different size systems and can be joined to form complexes. There are six different configurations: 16, 32, 48, or 64 foot sections, patient processing and 16 foot extension sections.</p> <p>The Hospital Unit Base (HUB) configuration will be used to procure the required quantities of M28 components necessary to chemically biologically harden each Chemically Protected Deployable Medical System (CP-DEPMEDS). One HUB requires the following M28 components: ten 16 foot sections, fifteen 64 foot sections, three patient processing units, 10 International Organization for Standardization (ISO) shelter adapters, 30 vestibules, 25 additional support kits, and 25 additional filters (HSFCs).</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 108 PAGE NO 1 OF 5				Page of Pages EXHIBIT P-40			

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. Other Procurement, Army 3, Other Spt Equip		B. Weapon Model/Series/Popular Name Coll Prot Equip, NBC TEMPER, TENT M28		(SX8001)		C. Manufacture Name Plant City/State Location St. Louis, MO		D. Date Month/Year Feb-95	
Weapons System Cost Elements	Ident. Code	94 PY		95 CY		96 BY1		97 BY2		Total Cost	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty
1. Hardware	A										
		9,916	50 / 496	11,708	130 / 1522						
		28,856	75 / 2164	27,062	195 / 5277						
		17,403	15 / 261	21,000	39 / 819						
		280	50 / 14	300	130 / 39						
		660	150 / 99	715	390 / 279						
		3,480	125 / 435	3,775	325 / 1227						
2. Engineering Support			547		556						
3. Quality Assurance Support			299		340						
4. First Article Test (FAT)(Contractor)			51		177						
TOTAL			4,366		10,236						

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											A. DATE Feb-95	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE							
Other Procurement, Army 3 - Other Support Equipment					Coll Prot Equip, NBC TEMPER, TENT M28 (SX8001)							
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail		
1. Hardware												
FY91	ILC, Frederica, DE	SS/FP	AMCCOM	Dec-90	Sep-92	56 67 15	14,641 35,689 31,054					
a. 16 ft Sys												
b. 64 ft Sys												
c. Patient Process												
FY94												
a. 16 ft Sys	Production Prod Inc.	C/FP	AMCCOM	May-94	Jun-95	50 75 15	9,916 28,856 17,403	YES				
b. 64 ft Sys												
c. Patient Process												
d. ISO Adapter												
e. Vest						50 150 125	280 660 3,480					
f. Support Kits												
FY95												
a. 16 ft Sys												
b. 64 ft Sys	Unknown	C/FP	AMCCOM	Jun-95	Dec-96	130 195 39	11,708 27,062 21,000					
c. Patient Process												
d. ISO Adapter												
e. Vest												
f. Support Kits						130 390 325	300 715 3,775					
2. Filter												
D. Remarks												
Filters were procured under separate contract and are GFE.												

PRODUCTION SCHEDULE

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

Coll Prot Equip, NBC Temper, Tent M28.

(SX8001)

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092 SYMBOL		B U D G E T I T E M J U S T I F I C A T I O N S H E E T					DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3 Other Support Equipment		Mask, Protective, NBC M40/M42 (MA5000)						
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST(IN MILLIONS)	34.5	24.9						

DESCRIPTION:

The M40/M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is mounted on the facepiece either on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40/M42 masks will replace the M17, M25A1 and M9A1 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40/M42 masks to the M40A1/M42A1 configuration. The improvements included a quick-doff hood/second skin (QDH/SS). The Quick-Doff Hood allows doffing the hood without removing the mask. The M40 masks were designed to be compatible with and use the NATO canister in a face mounted configuration worn on either the left or right cheek. The M42 mask is worn in the combat vehicle with a canister in a carrier worn around the waist. The mask is connected to the canister by means of a hose and a second hose connects the canister to the combat vehicle internal air supply. The M42A1 incorporates a canister inter-operability system that allows the use of NATO canisters in the canister carrier system. The M41 Protection Assessment Test System (PATS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PATS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation nucleus counter (CNC).

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE
BUDGET ACTIVITY 3
CHEMICAL/BIOLOGICAL DEFENSE

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Mask, Chem Biological Protective Field (M40/M40A1)						(M99600)	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY	192300	135438							
COST(IN MILLIONS)	28.1	19.3							
<p>DESCRIPTION: The M40 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is mounted on the facepiece either on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40 mask will replace the M17 and M9A1 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40 mask to the M40A1 configuration. The M40A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M40 and M40A1 masks were designed to be compatible with and use NATO canisters.</p>									
<p>PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:</p> <p>PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE</p>									
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		ITEM NO 109 PAGE NO 2 OF 12							

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip		B. Weapon Model/Series/Popular Name Mask, Chem -Bio Prot Field (M40/M40A1)		C. Manufacture Name Plant City/State Location ILC, Frederica, DE MSA, Esmond, RI		D. Date Month/Year Feb-95
Weapons System Cost Elements	Ident. Code	94 PY		95 CY		96 BY1		97 BY2
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty	
M40A1 Protective Field Mask Hardware Producer I Producer II Canister Production - Special Tooling Engineering Support ECP's	A							
		125	14,535					
		156	11,973	103	14,006			
			600		1,155			
			100		2,020			
QUANTITY: Producer I Producer II								
			115.4		135.4			
			76.9					
TOTAL			28,129		19,313			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE Feb-95	
B. APPROPRIATION/BUDGET ACTIVITY Other Proc: Army 3, Other Spt Equip				C. P-1 ITEM NOMENCLATURE Mask, Chem Biological Protective Field (M40/M40A1)							
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
M40A1											
FY93 Option											
Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Jul-94	Aug-95	3	125	Yes	No		
Producer II	MSA, Esmond, RI	C/FP	AMCCOM	Jul-94	Aug-95	12	155	Yes	No		
FY94											
Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Mar-94	Nov-94	115.4	125	Yes	No		
Producer II	MSA, Esmond, RI	C/FP	AMCCOM	Mar-94	Nov-94	76.9	156	Yes	No		
FY95											
Producer II	MSA, Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	135.4	103	Yes	No		
QUANTITIES IN THOUSANDS											
D. Remarks											

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T					DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Mask, Tank (M42/M42A1)					(M99400)	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	27864	11666						
COST(IN MILLIONS)	6.4	2.6						
<p>DESCRIPTION: The M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is attached to the facepiece by a hose. The M42 mask has a microphone in the high noise environment within the combat vehicle. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M42 mask will replace the M25A1 series mask. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A pre-planned product improvement was incorporated in FY93 to upgrade the M42 mask to the M42A1 configuration. The M42A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M42 mask is worn in the combat vehicle with a canister in a carrier worn around the waist. Hoses connect the mask to the canister and the canister to the combat vehicle internal air supply. The M42A1 incorporates a canister inter operability system that allows the use of NATO canisters in the canister carrier system.</p>								
DD Form 2454, JUL 88			P-1 SHOPPING LIST			Page of Pages EXHIBIT P-40		
			ITEM NO 109 PAGE NO 5 OF 12					

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. Other Procurement, Army 3, Other Spt Equip		B. Weapon Model/Series/Popular Name Mask Tank (M42/M42A1)		C. Manufacture Name Plant City/State Location ILC, Frederica, DE MSA, Esmond, RI		D. Date Month/Year Feb-95	
Weapons System Cost Elements		Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Qty Total Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	Qty Total Cost
M42A1 Tank Mask Hardware Producer I Producer II		A	193 248	3,224 2,763	166	1,937			
Canister Production - Special Tooling Engineering Support ECP's				197 50 100 32	100 308 200 69				
QUANTITY: (IN THOUSANDS) Producer I Producer II				16.7 11.2	11.7				
TOTAL				6,366	2,614				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										Feb-95
Other Procurement: Army 3 - Other Support Equipment										
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail
M42A1 FY94	ILC, Frederica, DE MSA, Esmond, RI	C/FP C/FP	AMCCOM AMCCOM	Mar-94 Mar-94	Nov-94 Nov-94	16.7 11.2	193 248	Yes Yes	No No	
FY95 Producer II	MSA, Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	11.7	166	Yes	No	
QUANTITIES IN THOUSANDS										
D. Remarks										

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET					DATE: February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE M41 Protection Assessment Test System (PATS)		(M95800)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
QUANTITY		500								
COST (IN MILLIONS)		3.0								
DESCRIPTION: The M41 Protective Mask Fit Validation System (PMFVS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PMFVS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation nucleus counter (CNC). The CNC operates by continuously sampling and counting individual particles that occur naturally in the surrounding air. The PMFVS measures the concentration of these particles both inside and outside the mask and from these values calculates a fit factor (FF). The FF is a measure of the quality of the face seal. The PMFVS will ensure that the soldier's assigned mask is properly sized and operational.										
PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:										
PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE										
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WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapons System Cost Elements	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip			B. Weapon Model/Series/Popular Name M41 Protection Assessment Test System (PATS)			C. Manufacture Name Plant City/State Location TSI, Inc. St. Paul, MN		D. Date Month/Year Feb-95
	Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Qty Total Cost	96 BY1 Unit Cost	97 BY2 Unit Cost	Qty Total Cost	
1. PATS	A			5100	2550				
2. Battery (BA-5847/U)	A			30	15				
3. Isopropyl Alcohol (99.5% grade)				45	23				
4. Engineering Support (Gov't) (In-house)					412				
TOTAL					3000				

ITEM NO 100

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Proc. Army 3, Other Spt Equip										Feb-95	
C. P-1 ITEM NOMENCLATURE											
M41 Protection Assessment Test System (PATS)											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev	If Yes, When Avail	
FY95	TSI, Inc. St. Paul, MN(PMFVS) Unknown (Battery)* TBD (Alcohol)*	SS/FP C/FP C/FP	ACALA CECOM ACALA	Jul-95 Jul-95 Jul-95	Nov-95 Nov-95 Nov-95	500 500 500	5,100 30 45	Yes Yes Yes	No No No		
D. Remarks *Items required to operate the PATS											

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3, Other Support Equipment		P-1 ITEM NOMENCLATURE Remote Sensing Chemical Agent Alarm XM21 (M96800)						
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
		156						
COST(IN MILLIONS)		18.8						
<p>DESCRIPTION: The XM21 Remote Sensing Chemical Agent Alarm (RSCAAL) is an automatic scanning, passive infrared (IR) sensor which detects nerve and blister agent vapor clouds at a stand-off distance of up to five kilometers. Because the XM21 technology can remotely detect changes in the infrared spectrum caused by an agent cloud, the RSCAAL can detect agent without having to be in the agent as is necessary with "point" detectors. The XM21 Alarm system consists of a detector, tripod, and a transit case. Independent power sources as well as vehicle power through the use of a North Atlantic Treaty Organization (NATO) adapter may be used for the XM21 Alarm. The XM21 Alarm will be used for point and area surveillance missions in both vehicle-mounted and tripod-mounted roles.</p>								
<p>PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:</p> <p>PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE</p>								
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WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapons System Cost Elements	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Support Equip		B. Weapon Model/Serial/Popular Name Remote Sensing Chemical Agent Alarm, XM21		C. Manufacturer Name Plant City/State Location Brunswick Deland, FL		D. Date Month/Year Feb-95		
	Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Qty 156 Total Cost	96 BY1 Unit Cost	Qty Total Cost	97 BY2 Unit Cost	
1. XM21 Hardware	B			101,263	15,797				
2. Engineering Support (Contractor)					750				
3. Engineering Support (Gov't)					800				
4. Quality Assurance Support					500				
5. Documentation					67				
6. Cost Bearing ECPs					614				
7. Warranty					311				
TOTAL					18,839				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										Feb-95
Other Proc: Army 3, Other Spt Equip										
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail
1. Hardware										
FY92	Brunswick Deland, FL	SS/FP	AMCCOM	Jul-92	Apr-95	18	150,000	Yes		
FY95	Brunswick Deland, FL	Option	CBD COM	Feb-95	Dec-95	156	101,263	Yes		
D. Remarks FY92 items were received in Nov 1993 for PQT & FAT. After test, items will be returned to contractor for refurbishment. Refurbished items will be available for fielding in Apr 95. The refurbishment is part of the FY92 contract.										

CODE "B" ITEM DESCRIPTION		DATE February 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Remote Sensing Chemical Agent Alarm XM21 (M96800)		
CURRENT DEVELOPMENT AND TEST STATUS				
SCHEDULE DATE				
CURRENT		LAST REPORTED		REASON FOR DELAY
Jun 90 May 90 (T) May 94 (V) May 90 (T) May 94 (V) Sep 90				
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL		
ESTIMATED DATE OF APPROVAL FOR SERVICE USE TC LRP Mar 92 TC Standard Feb 95				
EQUIPMENT ITEM(S) TO BE REPLACED NONE				
This is a new capability.				
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED				
Replaces no existing system; provides first generation capability for stand-off detection of chemical agent vapors.				
DEVELOPMENT CONTRACT INFORMATION				
RDTE&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	BY1 BY2 BEYOND BY'S
Brunswick Defense	Deland, FL	System	74.6	
TOTAL RDTE&E FUNDING			74.6	
REMARKS				
T = Date tripod mounted OT and IOT&E completed. V = Date vehicle mounted OT and IOT&E completed.				
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T							DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3, Other Support Equipment		P-1 ITEM NOMENCLATURE Automatic Chemical Agent Alarm (ACADA), XM22 (M98800)								
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
QUANTITY		160*								
COST (IN MILLIONS)		5.5								
<p>DESCRIPTION: The Automatic Chemical Agent Alarm/Non-Developmental Item (ACADA/NDI) is a man-portable automatic alarm system capable of detecting standard blister and nerve agents. The ACADA/NDI operates with no human interference after system start-up, detects automatically for a minimum of 24 hours, provides audio and visual alarms, and has a communication interface to support battlefield automation systems. The ACADA/NDI meets the critical needs of the US Forces for an automatic point sampling chemical agent alarm.</p> <p>* P-1 has an incorrect quantity for this system. Based upon current program costs, FY 95 quantity should be 100.</p> <p>PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:</p> <p>PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE</p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 112 PAGE NO 1 OF 5					Page of Pages EXHIBIT P-40			

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapons System Cost Elements	A. Appropriation/Budget Activity Title/No. Other Proc: Army 3 Other Spt Equip		B. Weapon Model/Series/Popular Name Automatic Chem Agt Alarm (ACADA) XM22		C. Manufacture Name Plant City/State Location Unknown		D. Date Month/Year Feb-95		
	Ident. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	100 Total Cost	96 BY1 Unit Cost	Qty Total Cost	97 BY2 Unit Cost	
1. Hardware	B			12,000	1,200				
2. Engineering Support					1365				
3. Quality Assurance Support					390				
4. First Article Test					1,000				
5. Refurbishment and Operational Verification of Alarms					360				
6. Procurement of TDP					900				
7. ILS Support					240				
TOTAL					5,455				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE Feb-95
B. APPROPRIATION/BUDGET ACTIVITY Other Proc: Army 3, Other Spt Equip				C. P-1 ITEM NOMENCLATURE Automatic Chemical Agent Alarm (ACADA) XM22						
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail
Hardware FY95	Unknown	C/FP	CBD COM	Jun-95	Oct-96	100	12,000	No	Yes	Feb-95
D. Remarks										

UNCLASSIFIED		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Automatic Chemical Agent Alarm (ACADA), XM22 (M98800)	
CURRENT DEVELOPMENT AND TEST STATUS			
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		REASON FOR DELAY The ACADA/MDI program was restructured. The DT&E and OT&E will test requirements identified as critical by the joint services. The performance spec must be available for the initial procurement.	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE TC LRP Mar 95 TC/STD Sep 96		SCHEDULE DATE	
EQUIPMENT ITEM(S) TO BE REPLACED: Complement M8A1 Automatic Chemical Agent Alarm		CURRENT Jan 95 N/A Jan 95 Feb 95	
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: First time capability to automatically detect blister agents on the battlefield. Significantly increased nerve agent sensitivity and improved interference rejection to detect agent threats.		LAST REPORTED Jan 95 N/A Jun 95 Feb 95	
DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR 94
Environmental Technologies Group, INC. (ETGI) OGA Battelle In-house & Material	Towson, MD Edgewood, MD	Complete System	72.7 1.0 .8 33.0 107.5
TOTAL RDT&E FUNDING		CY (95)	BEYOND BY'S
		0 1.7 1.7	
REMARKS: Total RDT&E funding includes in-house support.			
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		Page of Pages EXHIBIT P-19	

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

Automatic Chemical Agent Alarm, XM22

(00886M)

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 - Other Support Equipment		P-1 ITEM NOMENCLATURE Decontaminate App Pwr Dr Lt Mt M17				(M67400)	
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00
	515						
COST(IN MILLIONS)	7.2						
<p>DESCRIPTION: The M17A3 is a lightweight, compact, engine driven pump and water heating unit designed to decontaminate equipment. The unit is designed to draw water from any source and deliver it at controlled temperatures up to 120 degrees Centigrade and pressures up to 100 pounds per square inch. The basic unit is supplemented by an accessory kit containing hoses, cleaning jets, and personnel shower hardware. A rubberized fabric, self-supporting, collapsible tank with a capacity of 3,000 gallons is included with the system.</p> <p>COOPERATIVE AGREEMENTS: A license between the U.S. Government; Engineered Air Systems, Inc. (EASI), St. Louis, MO; and Karl H. Hoie and Co. (HOIE) of Norway, signed 7 Jul 87, provided the following: a) FY 87-88 sole source procurement to EASI for a total of 1,000 systems; b) Government acquisition of data rights allowed competitive procurement, which started in FY 89; c) Royalties to HOIE on the first 3,400 systems produced (started in FY 87) and to EASI for the first 1,000 systems awarded (after FY 88) to a producer other than EASI.</p>							
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET					DATE: February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 - Other Support Equipment		P-1 ITEM NOMENCLATURE Gen Smk Mech: Mtrzd Dual Purp, XM56 (M99103)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		12*	60*		70	71			
COST(IN MILLIONS)		4.9	12.4		13.0	13.3			
<p>DESCRIPTION:</p> <p>The XM56, mounted on the High Mobility Multipurpose Wheeled Vehicle (HMMWV), will disseminate smoke on the move and from stationary positions to defeat enemy sensors and smart munitions. The XM56 is a large area smoke generator system providing visual, infrared and through a pre planned product improvement (P31) millimeter wavelength obscuration. The system uses a turbine engine as a power source to disseminate obscuration. The visual screening module is capable of vaporizing fog oil for up to 60 minutes. The infrared and millimeter wave screening (P31) modules will be capable of disseminating a particulate material to provide 30 minutes of screening.</p> <p>JUSTIFICATION: World wide availability and proliferation of weapons systems operating in the infrared and millimeter wave regions requires new countermeasures. The XM56 is a force multiplier and increases survivability of US forces by defeating or degrading threat surveillance and weapon system sight to include tank thermal sights guided munitions, directed energy weapons, and other systems operating in the visual through the far-infrared regions of the electromagnetic spectrum. The XM56 will operate in support of maneuver units as well as performing mobile or stationary operations in rear areas. The XM56 system provides the basic generator components for the XM58 system. Force Package I requires 267 M56 Smoke Generators.</p> <p>* P1 has an incorrect quantity for this system. Based upon current program costs, FY94 quantity should be 30 each and the FY 95 quantity should be 47 each.</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST				Page of Pages EXHIBIT P-40			
		ITEM NO 114 PAGE NO 1 OF 5							

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. OPA-3 Other Spt Equip		B. Weapon Model/Serial/Popular Name Gen Smk Mech: Mtrzd Dual Purp. M56		C. Manufacture Name Plant City/State Location Unknown		D. Date Month/Year Feb-95	
Weapons System Cost Elements	Ident. Code	PY94 Unit Cost	Qty 30 Total Cost	CY95 Unit Cost	Qty 47 Total Cost	BY96 Unit Cost	Qty 0 Total Cost	BY97 Unit Cost	Qty 70 Total Cost
M56 Smoke Generators	B	165,000	4,900	165,000	7,755			173,071	12,115
Engineering Support					2,346				899
PQT					990				
DMWR					334				
FAT					985				
TOTAL			4900		12,410				13,014

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
OPA-3: Other Support Equipment										Feb-95	
C. P-1 ITEM NOMENCLATURE											
Gen Smk Mech: Mirzd Dual Pur XM56											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
FY94	TBS	C/FP M5(1)	CBD COM	Mar-95	Oct-96	30	165,000	YES	NO		
FY95	TBS	C/FP M5(1)	CBD COM	Mar-95	Apr-97	47	165,000	YES	NO		
FY97	TBS	C/FP M5(3)	CBD COM	Dec-96	Jan-98	70	173,071	YES	NO		
D. Remarks											
This contract produces both the M56 System and components for the XM58. The XM58 components contract will be awarded in the second year.											

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
Gen Smk Mech: Mtrzd Dual Purp, W56
(N99103)

FACILITY NO	U / M	S E R V	PROGRAM QUANTITY						ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 00												L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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FACILITY NO	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PROCUREMENT LEAD TIME					REMARKS: This contract provides common components for the M56 and M58 and associated spares. The 1-8-5 rate will be achieved between the M56 & M58. Initial manufacturing time includes time for FAT & PQT.	
		MINIMUM	1-8-5	MAXIMUM		ADMIN LEAD TIME			MANUFACTURING TIME	TOTAL AFTER 1 OCT		
						PRIOR 1 OCT	AFTER 1 OCT					
1	Unknown	3	10	30	5							
							INITIAL	6	5	20	25	
							REORDER	0	2	14	16	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED					DATE: February 1995		
BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Gen Smk Mech: Mechanized Smk Obs Sys XM58 (M99107)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				34	34	27			
COST(IN MILLIONS)				12.7	12.1	9.7			
<p>DESCRIPTION: The XM58 provides heavy unit maneuver commanders the capability of generating large area screens to shield forces from visual and infrared reconnaissance, intelligence, surveillance, and target acquisition threats. The XM58 is a mechanized large area screening system providing visual and infrared wavelength obscuration. The system is comprised of the M113A3 armored personnel carrier, smoke generator components and the AV/VAS3 Drivers Thermal Viewer (DTV). The visual screening module is capable of vaporizing fog oil for up to 90 minutes without resupply. The infrared screening module is capable of disseminating a particulate material to provide 30 minutes of screening. The thermal view permits operating in the visual cloud.</p> <p>JUSTIFICATION: Operation Desert Storm identified an urgent need to upgrade the mobility of the currently fielded M1059 Smoke Generator Carrier. The XM58 Mechanized Smoke Obscurant System FY96-FY97 procurement will equip mechanized combat smoke generator units with the capability of keeping pace with the M1 Abrams Tank and M3 Bradley Fighting Vehicle units. The XM58 also significantly increases survivability of US forces by providing the first ever capability of generating large area visual and infrared smoke clouds. Used in mobile or stationary emplacement, the XM58 will degrade threat surveillance and weapon systems sights to include: tank thermal sights, guided munitions, directed energy weapons, and other systems operating in the visual through far infrared regions of the electromagnetic spectrum. The XM58 platoon of six vehicles is task organized to Divisional or Corps maneuver commanders, responds immediately to shifts in meteorological conditions, and covers a 1km x 5km area in its stationary role.</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 115 PAGE NO 1 OF 6			UNCLASSIFIED		Page of Pages EXHIBIT P-40		

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. OPA-3 Other Spt Equip		B. Weapon Model/Series/Popular Name Gen Smk, Mech: Mechanized Smk Obs Sys XM58		C. Manufacture Name Plant City/State Location TBS		D. Date Month/Year Feb-95	
Weapons System Cost Elements	Ident. Code	PY		CY		BY1 96		BY2 97	
		Unit Cost	Qty	Unit Cost	Qty	Unit Cost	Qty 34	Unit Cost	Qty 34
Smoke Generator Components Drivers Thermal Viewer (AN-VAS3) XM58 Integration Engineering Support PQT	B					136,147	4,629	139,147	4,731
						49,824	1,694	50,912	1,731
							4,140		4,231
							2,235		1,059
									298
TOTAL							12,698		12,050

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
C. P-1 ITEM NOMENCLATURE (M99107)										Feb-95	
Gen Smk Mech: Mechanized Smk Obs Sys XM58											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
DTV's FY96 FY97	HUGHES HUGHES	SS/FPM4(2) SS/FPM4(3)	CECOM CECOM	Dec-95 Dec-96	Jan-97 Jan-98	34 34	49,824 50,912	Yes Yes	No No		
Smk Gen Cmpmts FY96 FY97	TBS TBS	C/M5(2) C/M5(3)	CBDCOM CBDCOM	Dec-95 Dec-96	Jan-97 Jan-98	34 34	136,147 139,147	No	No	Aug-95	
XM58 Integration FY96 FY97	TBS TBS	C/M4(1) C/M4(2)	CBDCOM CBDCOM	Dec-95 Dec-96	Feb-97 Feb-98	34 34	121,765 124,441	No	No	Aug-95	
D. Remarks The Smoke Generator Components contract will be awarded as the 2nd year of the XM56 (M99103) contract.											

UNCLASSIFIED		DATE: February 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE			
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		Gen Smk Mech: Mechanized Smk Obs Sys XM58 (M99107)			
CURRENT DEVELOPMENT AND TEST STATUS					
SCHEDULE DATE					
CURRENT		LAST REPORTED		REASON FOR DELAY	
Jan 95					
Apr 95					
Aug 95					
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL			
ESTIMATED DATE OF APPROVAL FOR SERVICE USE: Aug 95 (TC IPR)					
EQUIPMENT ITEM(S) TO BE REPLACED: Generator, Smoke, Mechanical: Pulse Jet M3A4					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Safety and operational improvements plus mobility. Increases survivability by improving mobility and maneuverability comparable to supported forces and by adding infrared screening capability.					
DEVELOPMENT CONTRACT INFORMATION					
CONTRACTOR NAME		PLANT LOCATION		RD&E FUNDING PROFILE (\$ IN MILLIONS)	
None		ERDEC and Test Sites			
In-House and OGA					
TOTAL RD&E FUNDING		9.7		1.8	
REMARKS					
DD Form 2443, JUL 88		P-1 SHOPPING LIST ITEM NO 115 PAGE NO 4 OF 6		UNCLASSIFIED Page of Pages EXHIBIT P-19	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET							DATE: February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Gen Set, Smoke, Mech: Pulse Jet M157A2							(M99104)	
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY				170	118					
COST(IN MILLIONS)				5.2	3.6					
<p>DESCRIPTION: The M157A2 Smoke Generator System (SGS) utilizes two remote operated pulse jet generators to vaporize fog oil to produce large area visual smoke screens. System consists of two generators, one control panel, one air compressor assembly, one fog oil pump assembly and associated hoses and electrical cables. The M157A1, type classified standard A on 8 Oct 93, incorporated essential user requested safety and operational improvements, such as smaller control panel, improved fire detection system, fuel water separator/filter and new engine head which permits operation at either sea level or high altitude. The M284A1 mounting kit can accommodate either the 80 or 120 gallon fog oil tank on either the M1097 or M1037 HMMWV, depending on operational equipment load. The M157A2 will permit the two generators to utilize JP8, JP4, JP5, JP4, DF2, DF1 in addition to MORGAS to produce heat in accordance with DOD directives. The M157A2 will also be incorporated into a M113 Armored Personnel Carrier as the M1059 Smoke Generator Carrier (SGC).</p> <p>JUSTIFICATION: The M157A2 FY96-FY97 procurement will equip combat smoke generator units with the first ever capability of making mobile smoke at any altitude using multiple fuels to produce heat. The M157A2 significantly increases survivability of US forces by defeating or degrading threat surveillance systems. Highly mobile, the M157A2 can maneuver in response to changing meteorological conditions to provide one hour of continuous large area, visual smoke, supporting Corps and Division combat maneuvers. In its stationary role, the M157A2 equipped smoke platoon is capable of visually screening a 1x5 KM area in support of rear area operations.</p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST				Page of Pages		EXHIBIT P-40		
		ITEM NO 116 PAGE NO 1 OF 4								

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. OPA-3 Other Spt Equip		B. Weapon Model/Series/Popular Name Gen Set, Smoke Mech: Pulse Jet M157A2		C. Manufacture Name Plant City/State Location		D. Date Month/Year Feb-95
Weapons System Cost Elements	Ident. Code	PY		CY95		BY1 96		Qty 118 Total Cost
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty 170 Total Cost	
M157A2 Generator Set (includes M284E1 Mounting Kits) Engineering Support FAT/PQT	A					28,118	4780	3329
							285	285
							149	
TOTAL							5214	3,614

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
OPA-3: Other Support Equipment										Feb-95	
C. P-1 ITEM NOMENCLATURE (M99104)											
Gen Set, Smoke, Mech: Pulse Jet, M157A2											
Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted By	Award Date	Date of First Delivery	Quantity	Unit Cost	Specs Avail Now	Spec Rev Required	If Yes, When Avail	
M157 Generator Set FY87	Minowitz Roseville, MI	C/FP	AMCCOM	Sep-87	Nov-88	320	16,422				
M157A2 Generator Set FY96	TBS	C/FPM2(1)	CBD COM	Jan-96	Sep-96	170	28,118	Yes			
FY97	TBS	C/FPM2(2)	CBD COM	Jan-97	Sep-97	118	28,212				
D. Remarks											

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Radiation Monitoring System (MB3001)							
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
COST (IN MILLIONS)	8.3								
DESCRIPTION: The Radiation Monitoring Systems Line funds items used in the detection, measurement of radiation and devices for the reading of dosimeters. Items programmed for acquisition include the following: (1) Radiac Set, AN/VDR-2 (2) Computer/Indicator, CP-696-PD									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 117 PAGE NO 1 OF 1				Page of Pages EXHIBIT P-40			

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY OTHER PROCUREMENT ARMY ACTIVITY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE RIBBON BRIDGE							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)				3.8	4.5	4.6	4.7	9.6	9.0
(MA8890)									
DESCRIPTION: The Ribbon Bridge consists of: Interior Bays (M266), Ramp Bays (M267), Bridge Boat (M236), Cradle (M263), Cargo Pallet (M256), and Transporters. (M268). These components are required to transport, launch, erect, and retrieve a floating bridge up to 200 meters long per bridge company. Ribbon Bridges have a capacity of 80 tons, and are used to transport weapon systems, troops and supplies over water when permanent bridges are not available.									
JUSTIFICATION: The Ribbon Bridge provides the capability for a continuous floating roadway to be rapidly constructed for transporting assault and tactical vehicles across streams and rivers that cannot be forded. Procurement of the Improved Ribbon Bridge Transporter (IRBT) is planned for FY 96 and FY 97. Improvements will provide a vehicle that will replace the current overaged fleet with a vehicle that will: improve ground mobility (larger payload), and enhance readiness by decreasing construction and retrieval time. The IRBT is designed to be compatible with the Palletized Loading System (PLS), and will operate with the current Ribbon Bridge, the Improved Ribbon Bridge, the Medium Girder Bridge, and the Heavy Dry Support Bridge.									
DD Form 2454, Jul 88		P-1 SHOPPING LIST			UNCLASSIFIED		Page of Pages		
ITEM NO 119		PAGE NO 1 OF 7			EXHIBIT P-40				

UNCLASSIFIED						DATE February 1995		
WEAPON SYSTEM COST ANALYSIS EXHIBIT								
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE RIBBON BRIDGE						
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		MANUFACTURER NAME PLANT CITY/STATE LOCATION see P5-A		WEAPON MODEL/SERIES/POPULAR NAME				
Weapon System Cost Elements		IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Improved Ribbon Bridge Transporter (M268)		B				23 3,828	97 4,472	46 4,472
TOTAL						166,435	97,217	4,472
P-1 SHOPPING LIST								Page of Pages
ITEM NO 119		PAGE NO 2 OF 7		UNCLASSIFIED		EXHIBIT P-5		

<div>REPORTS CONTROL SYMBOL</div> <div>DD-COMP(AR) 1092</div> <div>APPROPRIATION /BUDGET ACTIVITY</div> <div>OTHER PROCUREMENT ARMY</div> <div>ACTIVITY 3 OTHER SUPPORT EQUIPMENT</div>										<div>BUDGET ITEM JUSTIFICATION SHEET</div> <div>P-1 ITEM NOMENCLATURE</div> <div>(IMPROVED RIBBON BRIDGE TRANSPORTER, M26800)</div>										<div>DATE February 1995</div> <div>RIBBON BRIDGE</div>	
										<div>(MA8890)</div>											
QUANTITY										FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
												23	46	46	46	46	46				
COST (IN MILLIONS)												3.8	4.5	4.6	4.7	4.8	4.9				
<p>DESCRIPTION: Transporter Bridge Floating, HEMTT Chassis, consists of Heavy Mobile Tactical Truck (HEMTT) modified to transport, launch and retrieve the Ribbon Bridge components. The Improved Ribbon Bridge Transporter is designed to be compatible with the current Ribbon Bridge, as well as the Improved Ribbon Bridge components.</p> <p>JUSTIFICATION: The Improved Ribbon Bridge Transporter (IRBT) will replace the current, overaged 5 ton (812 series) transporters, with 10 ton capacity transporters. The IRBT will decrease transportation and construction/retrieval time, thus increasing mobility and readiness of the Ribbon Bridge companies.</p>																					
DD Form 2454, Jul 88										P-1 SHOPPING LIST					UNCLASSIFIED		Page of Pages				
										ITEM NO		119		PAGE NO		3 OF 7		EXHIBIT P-40			

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE RIBBON BRIDGE								
		MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P5-A		WEAPON MODEL/SERIES/POPULAR NAME IMPROVED RIBBON BRIDGE TRANSPORTER (M26800)						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS								
		IDENT CODE	FY 94	Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1. Hardware		B					86,217	23	88,804	46
2. Acceptance Testing								1,983		4,085
3. Data								91		
4. Production Engineering								1,542		
5. Engineering Change Orders								212		187
TOTAL							166,435	3,828	97,217	4,472
P-1 SHOPPING LIST										
		ITEM NO		119		PAGE NO		4 OF 7		EXHIBIT P-5

REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-1 ITEM NOMENCLATURE		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		RIBBON BRIDGE (IMPROVED RIBBON BRIDGE TRANSPORTER, M26800) (MA8890)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1996	VSE, ALEXANDRIA VA.	SS/FFP (1)	ATCOM	Dec 95	Jan 97	23	86,217	NO	YES	Dec 95
1997	TBS	C/FP/REQ 3 (1)	ATCOM	Mar 97	Dec 97	46	88,804	NO	YES	Dec 95
REMARKS: 1996 Award is a fixed price production option on a R&D contract awarded in 1993. 1997 is a new contract.										
P1 SHOPPING LIST						UNCLASSIFIED		Page of Pages EXHIBIT P-5A		

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RIBBON BRIDGE

IMPROVED RIBBON BRIDGE TRANSPORTER

(MA8890)

S E R V		U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R	
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		JUL
1	A	96	23	23											
2	A	97	46	46											
TOTALS					69										
MANUFACTURERS NAME & LOCATION					REMARKS										
VSE ALEXANDRIA VA.					PRODUCTION RATES			PRODUCTION LEAD TIME			TOTAL AFTER 1 OCT				
					MIN	1-8-5	MAX	MONTHS TO REACH MAX AFTER D DAY	ADMIN LEAD TIME	PRIOR 1 OCT	AFTER 1 OCT				
TBS					1	5	10	5	0	2	14	16			
									0	5	10	15			
									0	5	10	15			

DD Form 2445, JUL 87

P-1 SHOPPING LIST

ITEM NO

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UNCLASSIFIED

Page of

EXHIBIT

UNCLASSIFIED		CODE "B" ITEM DESCRIPTION		DATE February 1995		REPORT CONTROL DD-COMP(AR)		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army - OPA 3 Other Support Equipment				Ribbon Bridge (MA8890)				
CURRENT DEVELOPMENT AND TEST STATUS				SCHEDULE DATE				
				CURRENT	LAST REPORTED	REASON FOR DELAY		
				1-Sep-94 15-Dec-95	1-Sep-94 15-Dec-95			
Production Quality Test								
Type Classification IPR								
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:				15-Dec-95				
EQUIPMENT ITEM(S) TO BE REPLACED:								
Replace Ribbon Bridge Transporter								
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:								
Improved mobility, increased payload from 5 ton to 10 tons, interoperability with Palletized Loading System (PLS).								
DEVELOPMENT CONTRACT INFORMATION				RDT&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	FY 95	FY 96	FY 97	BEYOND BY'S	
VSE CORP.	Alexandria, VA.	Improved Ribbon Bridge Transporter (M26800)	1.64	1.0	0.30	0	0	
TOTAL RDT&E FUNDING			1.64	1.0	0.30	0	0	
DD Form 2443, JUL 88				P-1 SHOPPING LIST		Page of Pages		
ITEM NO 119				PAGE NO 7 OF 7		UNCLASSIFIED EXHIBIT P-19		

BUDGET ITEM JUSTIFICATION RECORD							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					(G39100)
Other Procurement, Army 3 Other Support Equipment		Dispenser, Mine M139					
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00
QUANTITY (EA)	166	179	0	35			FY01
COST (in Millions)	15.9	16.2	1.0	4.3			

DESCRIPTION:

The M139 Mine Dispenser for the VOLCANO system, mounted on a variety of ground vehicles and the UH-60 helicopter, is used to emplace the GATOR BLU-91/B Anti-Tank and the BLU-92/B Anti-Personnel mines. The system consists of four launcher racks and a dispenser control unit which are common to all vehicles/aircraft and mounting hardware which is adapted to each model. The system is critical for the United States Army to be able to conduct Full-Dimensional Operations.

This system is designed for quick connect/disconnect to aid loading/unloading in the field. It will permit quick emplacement of a minefield (1000 meters by 100 meters) that will delay, disrupt and canalize enemy forces and restrict their use of critical routes or terrain.

JUSTIFICATION:

The VOLCANO system is the centerpiece of the Army landmine system. These dispensers will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of a greater number of personnel to hostile fire.

The FY 1996 funds will provide for continued program support.

The FY 1997 procurement is required for the continuation of fielding to designated units.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										
WEAPON SYSTEM COST ELEMENTS		Ident. Code	A. Appropriation/Budget Activity/No. Other Procurement, Army 3 Other Support Equipment			B. WEAPON MODEL/NAME Dispenser, Mine M139 (G39100)		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION Brunswick Corp, De Land, FL		D. DATE Feb 1995
			FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	
1. M139 Dispenser (M548 AMMO CARRIER)		A	84, 813	121 10,262	83, 721	179 14,986			84, 657	35 2963
2. M139 Dispenser (5-Ton TRUCK)		A	84, 813	45 3,817						
Subtotal HARDWARE COST				14,079		14,986				2,963
3. Project Management Administration				315		100		100		150
4. Engineering Support				1,114		978		773		1040
5. Documentation				100		50		0		0
6. Quality Assurance				125		80		80		120
7. Acceptance Testing				200		0		0		0
Subtotal SUPPORT COST				1,854		1,208		953		1,310
GROSS P-1 END COST				15,933		16,194		953		4,273
Weapon System Unit Cost			95, 982		90, 469				122, 086	

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Exhibit P-5 Weapon System Cost Analysis
(page 2 of 5)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

February 1995

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 LINE ITEM NOMENCLATURE					(G39100)		
Other Procurement, Army 3-Other Support Equipment				Dispenser, Mine M139							
Cost Element FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. M139 Dispenser w/ Installation Kit for M548 AMMO CARRIER											
FY 92	Brunswick, Deland, FL	C/FP	ARDEC	AUG 92	JUL 93	130	93,931	YES			
FY 94	To Be Selected	C/FP	ARDEC	APR 95	JUL 96	121	84,813	YES			
FY 95	To Be Selected	C/FP	ARDEC	APR 95	MAY 97	179	83,721	YES			
FY 97	To Be Selected	Option	ARDEC	DEC 96	MAR 98	35	84,657	YES			
2. M139 Dispenser w/ Installation Kit for 5-Ton TRUCK											
FY 94	To Be Selected	C/FP	ARDEC	APR 95	FEB 97	45	84,813	YES			
D. REMARKS											

P-1 SHOPPING LIST

Previous editions are obsolete

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Page 3 of 5 Pages
Exhibit P-5A Procurement History and Planning

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		BUDGET ITEM JUSTIFICATION SHEET													
		P-1 ITEM NOMENCLATURE: Metallic Mine Detector, Vehicle Mounted (M80100)													
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01						
QUANTITY					21	34	22								
COST (IN MILLIONS)					6.8	9.9	6.7								
<p>DESCRIPTION: This detector is a remotely operated vehicle detector. The system consists of three main components: Remote All Terrain Vehicle (ATV) , Detector Head and Control Station. The remote ATV is a six wheeled all terrain diesel powered vehicle whose movements are controled from the Control Station via telemetry and a camera mounted on the ATV which provides real-time imagery. The Detector Head, the mine detector of the system, is towed by the ATV. It will signal the Control Station and leave a mark on the ground where there has been a detection. The Control Station, the brains of the system, records the location of the detection on a computer hard drive. This information is then relayed to the host vehicle commander. The Control Station is portable and can be operated out of any vehicle which has a 24 volt battery system.</p> <p>JUSTIFICATION: The U.S. Army has no remote ground based detection capability. This detector will give the U.S. Army an organic, continuously responsive, in-stride capability for on-route detection or avoidance of mines emplaced along lines of communication. The FY 97 funds will begin initial fielding of this capability.</p>															
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity/No. Other Procurement Army 3 Other Support Equipment				B. WEAPON MODEL/NAME Metallic Mine Detector, Vehicle Mounted (M80100)				C. MANUFACTURER NAME PLANT CITY/STATE LOCATION To Be Selected				D. DATE February 1995			
		FY 94		QTY = 0		FY 95		QTY = 0		FY 96		QTY = 0		FY 97		QTY = 21	
WEAPON SYSTEM COST ELEMENT		IDENT CODE	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)	UNIT COST	QTY (EA)	TOTAL (\$000)
HARDWARE		B															
Metallic Mine Detector, Vehicle Mounted													273,000	21	5,733		5,733
SUBTOTAL																	
PRODUCTION SUPPORT																	
PROJECT MGT ADMIN																	155
PRODUCTION ENGINEERING																	565
QUALITY ASSURANCE																	102
ACCEPTANCE TESTING																	75
DOCUMENTATION																	125
SUBTOTAL																	1,022
TOTAL P-1 LINE ITEM															321,667		6,755

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY										A. DATE	
Other Procurement Army 3 Other Support Equipment										February 1995	
C. P-1 LINE ITEM NOMENCLATURE											
Metallic Mine Detector, Vehicle Mounted (M80100)											
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY (each)	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE	
Metallic Mine Detector, Vehicle Mounted FY 97	To Be Selected	SS/FP	CECOM	Mar 97	Feb 98	21	273,000.00	NO	YES	Sep 96	
D. REMARKS											

CODE "B" ITEM DESCRIPTION			DATE	REPORT CONTROL SYMBOL
APPROPRIATION	ACTIVITY		February 1995	DD-COMP (AR 1092)
Other Procurement Army 3	Other Support Equipment			
		P-1 ITEM NOMENCLATURE		
		Metallic Mine Detector, Vehicle Mounted		
		(M80100)		
1. CURRENT DEVELOPMENT AND TEST STATUS				
		SCHEDULE DATE		
		CURRENT (1)	LAST REPORTED (2)	REASON FOR DELAY (3)
		Jun 96		
		Jun 96		
		Jun 96		
		Sep 96		
a. DEV TEST & EVAL (DT&E)		PLAN/ACTUAL		
b. INITIAL OPER TEST & EVAL (IOT&E)		PLAN/ACTUAL		
c. OPER TEST & EVAL (OT&E)		PLAN/ACTUAL		
d. AVAIL DATE OF TECH DATA PKG (TDP)				
OR PERFORMANCE SPECIFICATIONS				
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE SEP 96				
3. EQUIPMENT ITEM(S) TO BE REPLACED None				
4. EXTENT OF IMPROVEMENT OVER ITEM(S) TO BE REPLACED N/A				
5. DEVELOPMENT CONTRACT INFORMATION				
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH PYR (4)	BYR (6)
				BEYOND BYR (7)
OGA (Govt Test and Qualification)				
In-House (Govt Management and Engineering)				465.0
				1525.0
TOTAL RDT&E FUNDING			0.0	0.0
6. REMARKS			0.0	1990.0

Reference entries on attachment to P-19 If additional space is required to adequately explain delay from previous date

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		AIR CONDITIONERS, VARIOUS SIZE/CAPACITY (MF9300)							
QUANTITY		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
COST (IN MILLIONS)	6.1	3.0	3.2	1.5	1.6	1.5	1.6	1.5	1.0
DESCRIPTION: This budget line represents the Army's family of tactical Environmental Control Units (ECU's), AKA Air Conditioners. They range in size from 6,000 to 60,000 BTU, in a wide range of frequencies and currents, plus two system peculiar 18,000 BTU ECUs that support the Patriot Missile and the Standard Integrated Command Post Shelter. All ECUs are base mounted and electric motor driven. Air conditioners provide cooling, heating, dehumidification and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by electrical equipment itself. Air conditioners support 181 separate tactical major weapon systems. The majority of the weapon systems are command, control, and communications oriented. Other applications include Apache cockpit instruments cooling (Desert Storm), ground support equipment, satellite communications, intelligence gathering systems, Petroleum and Water Logistics laboratories, electronic shop sets, Test, Measurement and Diagnostic Equipment (TMDE), aviation shop sets, and topographic support sets.									
JUSTIFICATION: Air conditioners are required as a component or separately authorized in support of fielded major tactical weapon systems. They are required to fill existing shortages or provide replacements for assets that are overage, non supportable and non repairable. Air conditioners are critical to the system they support. Without them, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.									
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REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE February 1995		
DD-COMP(AR) 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT				
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				
Other Procurement: Army 3		AIR CONDITIONER, VARIOUS SIZE, CAPACITY				
Other Support Equipment		(MF9300)				
		MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME		
		PLANT CITY/STATE LOCATION		ENVIRONMENTAL CONTROL UNIT (ECU)		
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS				
IDENT CODE	FY 94	Quantity	FY 95		FY 96	
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
M811 Air Conditioner, 36,000 BTU C/H	A	947	479	2,995	50	254
M899 Air Conditioner, 18,000 BTU C/V	A	6,142			286	1,520
M910 Air Conditioner, 9,000 BTU C/V	A				100	
M918 Air Conditioner, 18,000 BTU C/H	A				472	
					460	
					2,418	
TOTAL		6,142	2,995		3,176	1,520

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL (M81100)					
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99
QUANTITY		947	479		254		FY 01
COST (IN MILLIONS)		6.1	3.0		1.5		
<p>DESCRIPTION: This air conditioner is a 36,000 BTU, compact horizontal, 3 phase, 50/60 HZ, 208V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, fire directional support systems, laboratories, radar, aircraft and electronic shop sets. Specific examples include the Decentralized Automatic Computer System (DAS-3), and the Corps/Theater ADP Service Center (CTASC-11).</p> <p>JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.</p>							
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REPORTS CONTROL SYMBOL		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995											
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE				P-1 ITEM NOMENCLATURE															
APPROPRIATION /BUDGET ACTIVITY		MANUFACTURER NAME				WEAPON MODEL/SERIES/POPULAR NAME															
Other Procurement: Army 3		PLANT CITY/STATE LOCATION				ENVIRONMENTAL CONTROL UNIT (ECU)															
Other Support Equipment		AIRTACS, REDLION, PA																			
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS																			
IDENT CODE	FY 94	Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity	TOTAL COST												
									UNIT COST	TOTAL COST	UNIT COST	TOTAL COST									
ITEM HARDWARE	A	947	5,710	5,407	479	2,735	5,710	5,710	254	1,450											
											GOVERNMENT ENGINEERING	665	219	41	5,984	1,520					
																	WARRANTY	70			

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REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT			DATE February 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL (M81100)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 90	AIRTACS, REDLION, PA	C/FP-REQ-3	TROSCOM	Jan 91	May 95	377	5,710	YES	NO	
FY 94	AIRTACS, REDLION, PA	C/FP-REQ-3(1)	ATCOM	Jun 94	Dec 95	947	5,710	YES	NO	
FY 95	AIRTACS, REDLION, PA	C/FP-REQ-3(2)	ATCOM	Nov 94	Apr 96	479	5,710	YES	NO	
FY 97	AIRTACS, REDLION, PA	C/FP-REQ-3(3)	ATCOM	Nov 96	Apr 97	254	5,710	YES	NO	
REMARKS FY 90 contract with three ordering periods beginning after acceptance of FAT. FAT accepted May 94.										
P1 SHOPPING LIST						UNCLASSIFIED		Page of Pages EXHIBIT P-5A		

			FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												L A T E R				
			ACCEP PRIOR TO 1 OCT				BAL DUE AS OF 1 OCT	CALENDAR YEAR 97												CALENDAR YEAR 98												CALENDAR YEAR 99											
			U/M EA					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP												
S	E	R	FY	QTY																																							
1	A		90	377		377																																					
1	A		94	947		947																																					
1	A		95	479		479																																					
1	A		97	254		254	A								200	54																											
TOTALS					1803	254									200	54																											
			MANUFACTURERS NAME & LOCATION												PRODUCTION RATES				MONTHS TO REACH MAX AFTER D DAY		PRODUCTION LEAD TIME				REMARKS																		
F	A	C													MIN		1-8-5		MAX		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT																		
1			AIRTACS, REDLION, PA												50		200		250		PRIOR AFTER 1 OCT 1 OCT		18		24																		
																					INITIAL		6		24																		
																					REORDER		1		7																		

REPORTS COMBINED SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL (M89900)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY				50					
COST (IN MILLIONS)				0.3					
<p>DESCRIPTION: This air conditioner is a 18,000 BTU, compact vertical, 3 phase, 60 HZ, 208V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment, where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. This air conditioner supports approximately twenty-five different major weapon systems including the base set test facility, electronic shop shelter, and a wide variety of communications, radio, air traffic control, and relay terminal control facilities.</p> <p>JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.</p>									
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT								
		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL (M89900)								
		MANUFACTURER NAME PLANT CITY/STATE LOCATION KECO, FLORENCE, KY		WEAPON MODEL/SERIES/POPULAR NAME ENVIRONMENTAL CONTROL UNIT (ECU)						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS								
		IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
ITEM HARDWARE		A					50			
GOVERNMENT ENGINEERING							256			
WARRANTY							25			
							5			
TOTAL							5,125			286
							5,720			
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REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				DATE February 1995				
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										
P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU COMPACT VERTICAL (M89900)										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 93	KECO, FLORENCE, KY	C/FP-REQ-3(1)	ATCOM	Feb 93	Apr 94	235	5,125	YES	NO	
FY 96	KECO, FLORENCE, KY	C/FP-REQ-3(2)	ATCOM	Nov 95	May 96	50	5,125	YES	NO	
REMARKS Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.										
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UNCLASSIFIED															UNCLASSIFIED																													
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092															DATE February 1995																													
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment															P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL																													
(MB9900)																																												
FISCAL YEAR 94															FISCAL YEAR 95															FISCAL YEAR 96														
CALENDAR YEAR 94															CALENDAR YEAR 95															CALENDAR YEAR 96														
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP														
BAL DUE AS OF 1 OCT															235															50														
ACCEP PRIOR TO 1 OCT															235															50														
U/E A QTY															235															50														
S E A R C V															1 A 93															1 A 96														
TOTALS															285															173 62														
MANUFACTURERS NAME & LOCATION															1 KECO, FLORENCE, KY																													
MIN 1-8-5 MAX 250															50 200																													
MONTHS TO REACH MAX AFTER D DAY															2																													
ADMIN LEAD TIME															PRIOR AFTER 1 OCT 1 OCT															6 1														
MANUFACTURING TIME															TOTAL AFTER 1 OCT															18 24														
INITIAL															REORDER															8														
REMARKS:															Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.																													
P-1 SHOPPING LIST															UNCLASSIFIED															Page of Pages														
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REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE February 1995				
DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL (M91000)						
Other Support Equipment								
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
			100					
COST (IN MILLIONS)			0.5					

DESCRIPTION: This air conditioner is a 9,000 BTU, compact vertical, 3 phase, 50/60 HZ, 208 V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include the troposcatter radio terminal (AN/TRC-170), the flight line test set (AN/TM-Q-31), and the surveillance information system (AN/TAQ-1).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without the air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL (M91000)								
		MANUFACTURER NAME PLANT CITY/STATE LOCATION TBS		WEAPON MODEL/SERIES/POPULAR NAME ENVIRONMENTAL CONTROL UNIT (ECU)						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS								
		IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
ITEM HARDWARE		A					4,200	100		
GOVERNMENT ENGINEERING								420		
WARRANTY								49		
								3		
TOTAL							4,720	472		
P-1 SHOPPING LIST										
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								Page of Pages		
								EXH P-5		

REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-1 ITEM NOMENCLATURE		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL (M91000)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 87	KECO	C/FP-REQ-3	TROSCOM	Jan 87	Jul 87	47	4,928	YES	NO	
FY 96	TBS	C/FP-REQ-3(1)	ATCOM	May 96	Oct 97	100	4,200	YES	NO	
REMARKS Last buy on this item was in 1987. Configuration at that time was 3 Phase 50/60 Hertz. Configuration to be bought in FY 96 will include multiple power input technology.										
P1 SHOPPING LIST						UNCLASSIFIED		Page of Pages EXHIBIT P-5A		

UNCLASSIFIED										UNCLASSIFIED									
REPORTS CONTROL SYMBOL										DATE February 1995									
DD-COMP(AR) 1092										P-1 ITEM NOMENCLATURE									
APPROPRIATION /BUDGET ACTIVITY										AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL									
Other Procurement: Army 3										(M91000)									
Other Support Equipment																			
FISCAL YEAR 96										FISCAL YEAR 97									
FISCAL YEAR 98										FISCAL YEAR 99									
CALENDAR YEAR 96										CALENDAR YEAR 97									
CALENDAR YEAR 98										CALENDAR YEAR 99									
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP									
BAL DUE AS OF 1 OCT 100										100									
ACCEP PRIOR TO AS OF 1 OCT 100										100									
U/E A QTY 100										100									
S E R V A 96										100									
TOTALS										100									
MANUFACTURERS NAME & LOCATION										TBS									
MIN 50										200									
MAX 250										250									
MONTHS TO REACH MAX AFTER D DAY										2									
PRODUCTION RATES										1-8-5									
PRODUCTION LEAD TIME										ADMIN LEAD TIME									
PRIOR AFTER 1 OCT 1 OCT										7 1									
MANUFACTURING TIME										18 6									
TOTAL AFTER 1 OCT										25 7									
INITIAL REORDER										7 1									
P-1 SHOPPING LIST										UNCLASSIFIED									
DD Form 2445, JUL 87										PAGE NO 15 OF									
ITEM NO 122										EXHIBIT									

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET		UNCLASSIFIED		DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL (M91800)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY				460					
COST (IN MILLIONS)				2.4					
<p>DESCRIPTION: This air conditioner is a 18,000 BTU, compact horizontal, 3 phase, 60 HZ, 208 V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include joint stars radar ground station module, satellite communication and tracking system, Joint Tactical Distribution System (JTIDS), and the Position Location Reporting System (PLRS).</p> <p>JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.</p>									
DD Form 2454, Jul 88		ITEM NO 122			P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages
					PAGE NO 16 OF 19				EXHIBIT P-40

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU COMPACT HORIZONTAL (M91800)				WEAPON MODEL/SERIES/POPULAR NAME ENVIRONMENTAL CONTROL UNIT (ECU)					
MANUFACTURER NAME PLANT CITY/STATE LOCATION KECO, FLORENCE, KY		TOTAL COST IN THOUSANDS OF DOLLARS									
IDENT CODE		FY 94		FY 95		FY 96		FY 97		Quantity	
		UNIT COST		UNIT COST		UNIT COST		UNIT COST		TOTAL COST	
		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
Weapon System Cost Elements											
ITEM HARDWARE		A				5,115		460		2,353	
GOVERNMENT ENGINEERING								25			
WARRANTY								40			
TOTAL						5,257		2,418			
P-1 SHOPPING LIST											
ITEM NO 122				PAGE NO 17 OF 19				UNCLASSIFIED		Page of Pages	
										EXH P-5	

REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				DATE February 1995				
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										
P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL (M91800)										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 93	KECO, FLORENCE, KY	C/FP-REQ-3(1)	ATCOM	Sep 93	Jul 94	490	5,115	YES	NO	
FY 96	KECO, FLORENCE, KY	C/FP-REQ-3(3)	ATCOM	Nov 95	May 96	460	5,115	YES	NO	
REMARKS No buy during second ordering period of the three year requirements contract Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.										
ITEM NO 122						UNCLASSIFIED		Page of Pages		EXHIBIT P-5A

[illegible]

UNCLASSIFIED										DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE STANDARD INTEGRATED CMD POST SYSTEM (MX1010)											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092 APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment											
QUANTITY											
COST (IN MILLIONS)											
			FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
			20.3								

DESCRIPTION:

This program includes the procurement of five command post variants each designed to accommodate the various nodes of the Army Tactical Command and Control System (ATCCS). These nodes include the Maneuver Control System (MCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Combat Service Support Control System (CSCSS) and the Forward Area Air Defense Command and Control System (FAADC2). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a light-weight, aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, mapboards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP capable of being mounted to the High Mobility Multipurpose Wheeled Vehicle (HMMWV) Shelter Carrier. The shelter will be integrated with an on-board engine/generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment racks to accommodate two ATCCS workstations and an operator seat.
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ATCCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts and stowage provisions. The converted M577 has been designated the M1068 Track CP.
- (4) Installation Kits for the 5-Ton Expansible Van (E-Van), consisting of racks for up to six ATCCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts and mapboards.
- (5) Installation Kits for the Soft-Top HMMWV consisting of equipment racks for up to two ATCCS workstations, communications patch panel, antenna mounts and operator work surface.

JUSTIFICATION: SICPS is the house for the Army Tactical Command and Control System. The current command and control facilities in the DOD inventory do not provide the flexibility, commonality and operational compatibility needed to direct and control in a fast-paced and highly active combat situation.

NOTE:
FY 95 and beyond are funded through OPA 2.

REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE February 1995	
DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET			
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE:			
Other Procurement: Army 3		Chem/Bio Protective Shelter			
Other Support Equipment		(R12300)			
	FY94	FY95	FY96	FY97	FY98
		29			FY00
		7.0			FY01
QUANTITY					
COST (IN MILLIONS)					

DESCRIPTION: The Chemical Biological Protected Shelter is a new system designed to replace the M51 Chemically Protected Shelter. It consists of a Lightweight Multipurpose Shelter mounted on a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) variant and a 300 square foot soft shelter. The system provides full NBC protection for patients and medical personnel. Hydraulic power from the dedicated HMMWV engine provides high reliability and low maintainability requirements for the system.

NOTE:
 Program after FY95 funded under Procurement, Defense-Wide Budget Activity 3.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement Army 3 Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT P-1 ITEM NOMENCLATURE Chem/Bio Protective Shelter (R12300) WEAPON MODEL/SERIES/POPULAR NAME							
		MANUFACTURER NAME PLANT CITY/STATE LOCATION		SEE P-5A					
Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
HARDWARE	B			183,000	29 5,307				
ENGINEERING					600				
GOVT					(400)				
CONTRACTOR					(200)				
DATA					1,082				
TOTAL				241,000	6,989				
		P-1 SHOPPING LIST ITEM NO 124 PAGE NO 2 OF 5				UNCLASSIFIED			Page 5 Pages EXHIBIT P-5

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE								
		Chem/Bio Protective Shelter (R12300)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
95	TBS	C/FP M-2(1)	ATCOM	Jun 95	Jul 96	30	183,000	YES	NO	
REMARKS										
P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		EXHIBIT P-5A		
ITEM NO 124		PAGE NO 3		OF 5						

UNCLASSIFIED		CODE "B" ITEM DESCRIPTION		DATE: September 1994		REPORT CONTROL	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		DD-COMP(AR)1092			
Other Procurement, Army - OPA 3		Chem/Bio Protective Shelter				(R12300)	
Other Support Equipment							
CURRENT DEVELOPMENT AND TEST STATUS							
DEV TEST & EVAL (DT&E)		PLAN/ACTUAL		CURRENT		LAST REPORTED	
USER TEST		PLAN/ACTUAL		JUN 93-SEP94		JUN 93-APR 94	
OPERATIONAL TEST		PLAN/ACTUAL		Sep-94		JAN 94 - APR 94	
AVAIL DATE OF TECH DATA PKG				JAN-FEB 96		JAN 94-APR 94	
				Sep-94		Jun-94	
						REASON FOR DELAY	
						LIMITED PROTOTYPES EXPANDED TEST	
						SCHEDULE LOGISTICS ISSUES AFFECTING	
						UNRESOLVED LOGISTICS ISSUES	
						SLIPPAGE OF DT.	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:				SEP 96 TC STD			
EQUIPMENT ITEM(S) TO BE REPLACED:				DEC 94 TC-LPU			
SHELTER SYSTEM, COLLECTIVE PROTECTION, CHEMICAL/BIOLOGICAL							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Replaces M51CB Shelter							
1) INCREASED MOBILITY 2) REDUCED SYSTEM WEIGHT 3) INCREASED FLOOR SPACE							
DEVELOPMENT CONTRACT INFORMATION				RDT&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY	BY1	BY2	BEYOND BY'S
BICHRNER SHELTER SYSTEMS	DALLASTOWN, PA	HARDWALL SHELTER	3.80	0.276	0.575	0.25	
CHEMFAB	BUFFALO NY	SOFTWALL SHELTER	1.07				
TOTAL RDT&E FUNDING			4.87	0.276	0.575	0.25	
DD Form 2443, JUL 88							
ITEM NO. 124				P-1 SHOPPING LIST		Page of Pages	
PAGE NO 5 OF 5				UNCLASSIFIED		EXHIBIT P-19	

REPORTS CONTAINING SYMBOL		CLASSIFIED		DATE February 1995				
DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		SPACE HEATER						
Other Support Equipment		(M19800)						
QUANTITY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
	*128	564	290	485			100	150
COST (IN MILLIONS)	0.7	2.8	1.4	2.4			0.5	0.7

DESCRIPTION: The Army Space Heater (ASH) is electrically powered, requiring maximum 3 kilowatt of external power. It is thermostatically controlled using either diesel or jet petroleum-8 fuels to produce heat. The ASH is mobile and will deliver clean, heated or vented air through sealed detachable, flexible ducts. It is suitable for arctic use. The main mission of this heater is to heat maintenance tents in cold environments so that soldiers can safely repair a wide variety of equipment such as trucks, tanks, helicopters, Hawk, Patriot, and Multiple Launch Rocket System. Additionally, it supports field artillery and medical units.

JUSTIFICATION: This heater is a non developmental item that will replace the current 250,000 BTU gasoline engine driven (GED) heater. It will correct the deficiencies found in the 250,000 BTU GED heater, specifically gasoline will be replaced by diesel fuel, meeting the DOD regulations to have one fuel on the battlefield. It will be safer for the personnel operating equipment in enclosed areas because it reduces carbon monoxide emissions. The ASH is a stand alone item that supports the function of providing heat for maintenance, operations and comfort.

*Funded from FY 94 Items Less Than \$2.0M CSS-EQ

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE SPACE HEATER																	
		MANUFACTURER NAME ENGINEER AIR SYSTEMS, INC. ST. LOUIS, MO.		WEAPON MODEL/SERIES/POPULAR NAME MODEL H-120, ARMY SPACE HEATER (ASH)															
		TOTAL COST IN THOUSANDS OF DOLLARS																	
		IDENT CODE		FY 94 UNIT COST		Quantity TOTAL COST		FY 95 UNIT COST		Quantity TOTAL COST		FY 96 UNIT COST		Quantity TOTAL COST		FY 97 UNIT COST		Quantity TOTAL COST	
Weapon System Cost Elements																			
Item Hardware		A		4,906		128 628		4,904		564 2,766		4,852		290 1,407		4,911		485 2,382	
Government Engineering						42				46				33				28	
Note: FY 94 Program on the Less Than \$2.0M CSS-EQ																			
TOTAL				5,234		670		4,986		2,812		4,986		1,440		4,969		2,410	
		P-1 SHOPPING LIST										UNCLASSIFIED		Page of Pages					
		ITEM NO 125										PAGE NO 2 OF 5		EXHIBIT P-5					

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE SPACE HEATER		(M19600)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Sep 92	Dec 94	223	4,906	YES	NO	
FY 94	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Aug 94	Feb 95	128	4,906	YES	NO	
FY 95	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Mar 95	Jun 95	564	4,904	YES	NO	
FY 96	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	290	4,852	YES	NO	
FY 97	Engineer Air Sys	C/FP-REQ3(3)	ATCOM	Dec 96	Mar 97	485	4,911	YES	NO	
REMARKS Three year requirements type contract. Base year expires March 1995, second ordering period expires March 1996, and third ordering period expires March 1997.										
FY 92 & 94 programs are reflected on Items Less Than \$2.0M CSS-EQ.										
ITEM NO 125				P1 SHOPPING LIST				Page of Pages		
				UNCLASSIFIED				EXHIBIT P-5A		

PRODUCTION SCHEDULE

DATE February 1995

P 1 ITEM NOMENCLATURE

Other Procurement: Army 3

Other Support Equipment

SPACE HEATER

(M19800)

[illegible]

PRODUCTION SCHEDULE

DATE February 1995

P 1 ITEM NOMENCLATURE

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3
Other Support Equipment

SPACE HEATER

(M19600)

[illegible]

BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 1995

P-1 ITEM NOMENCLATURE:

APPROPRIATION/BUDGET ACTIVITY:

OTHER PROCUREMENT ARMY

ACTIVITY 3: OTHER SUPPORT EQUIPMENT

SOLDIER ENHANCEMENT

MA6800

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	\$9.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

DESCRIPTION:

The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their flexibility, mobility, lethality, and survivability. Currently the only item that is being procured under the Soldier Enhancement line is Survival Armor Recovery Vest Insert and Packets (SARVIP). SARVIP is a fire retardant survival vest for the Army aviators which incorporates an extraction harness for rescuing downed aviators, a lift preserver for in-water survival, and .50 caliber armor piercing (AP) body armor for pilots and co-pilots.

EXHIBIT P-40

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P-1 SHOPPING LIST

ITEM NO 126

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

REPORTS CONTROL SYMBOL

D-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FORCE PROVIDER

(M80200)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		2	2	2	2	1	1	2
COST (IN MILLIONS)		10.7	12.3	12.1	12.3	6.9	6.9	13.3

DESCRIPTION: Force Provider is a system which contains in one package, all the material necessary to provide quality food, billeting, health and hygiene services for a battalion sized force. Each system is configured as a stand alone module capable of housing 550 soldiers. A module consists of ten basic subsystems: billeting, laundry, latrine, shower, fuel/water/power distribution, waste management, food service, transportation aids, system support package, and soldier support services. Force Provider is transportable by rail, sea, roadway, and C-130, C-141, or C-5A aircraft.

JUSTIFICATION: Force Provider provides the capability to house, feed and support soldiers and civilians in a short period of time during national emergencies. The Force Provider concept originated in the immediate aftermath of Operations Desert Shield/Storm as a Chief of Staff of the Army initiative to address perceived shortcomings in field service support. The Force Provider concept was reinforced during the aftermath of Hurricane Andrew with the mission to provide humanitarian aid. Force Provider provides for the rest and refit of the combat soldier; thereby, improving the soldiers "Quality of Life" in the field. A total of six stand-alone modules will give the Army the capability to provide services for a contingency corps brigade size force of 3,300 soldiers.

UNCLASSIFIED										DATE February 1995		
WEAPON SYSTEM COST ANALYSIS EXHIBIT												
P-1 ITEM NOMENCLATURE										FORCE PROVIDER		
WEAPON MODEL/SERIES/POPULAR NAME										(M80200)		
MANUFACTURER NAME												
PLANT CITY/STATE LOCATION												
See P-5A												
Weapon System Cost Elements										TOTAL COST IN THOUSANDS OF DOLLARS		
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST				
A			24,667	6	25,000	4	25,250	4				
A			11,725	148	11,853	100	11,990	101				
A			3,250	102	3,250	102	3,375	102				
A			29,500	1,196	30,000	1,209	30,000	1,223				
A			16,722	8	17,000	8	17,000	8				
A			4,250	26	4,297	26	4,344	27				
A			5,569	2	5,625	2	5,694	2				
A			6,000	59	6,125	60	6,125	60				
A			2,250	18	2,267	18	2,300	18				
A			9,750	301	9,750	306	10,000	306				
A			5,750	128	5,750	128	6,000	128				
A			10,000	544	10,000	550	10,250	556				
PAGE TOTAL										2,960	2,943	2,975

UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
FORCE PROVIDER										(M80200)	
WEAPON MODEL/SERIES/POPULAR NAME											
MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
Weapon System Cost Elements	IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST		
350 GPM PUMP, DED	A			12,333	6	12,500	6	12,667	6	6	
FORWARD AREA REFUELING SYS, M640	A			8,000	74	8,000	75	8,250	76	76	
TANK ASSEMBLY, 10K GAL, M649	A			7,000	4	7,125	4	7,125	8	33	
TANK, 20K GAL, R214	A			9,500	8	9,667	8	9,667	8	8	
TANK, FABRIC, WATER, 3K GAL	A			2,375	56	2,375	57	2,375	57	57	
TANK ASSEMBLY, 50K GAL, M120	A			14,250	6	14,500	6	14,500	6	6	
HYPOCHLORINATION UNIT, M155	A			14,250	57	14,500	58	14,500	58	58	
WATER CHILLER, M157	A			10,250	4	10,375	4	10,500	8	8	
PUMP UNIT, 125 GPM	A			1,667	82	1,667	83	1,667	84	84	
TANK, FABRIC, COLL, 3K GAL	A			3,000	6	3,000	6	3,000	6	6	
DRUM, 500 GAL, M126	A			2,083	10	2,125	10	2,125	10	10	
KIT, 350 GPM PUMP	A			1,500	2	1,500	2	1,500	2	2	
KIT, FP FACILITIES	A			857	3	857	3	857	3	3	
PAGE TOTAL				515	14	522	14	525	14	14	
P-1 SHOPPING LIST										UNCLASSIFIED	
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UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE										FORCE PROVIDER	
WEAPON MODEL/SERIES/POPULAR NAME										(M80200)	
MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
Weapon System Cost Elements	IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST		
KIT, 20K GAL TANK W-W	A			4,000	2	4,000	2	4,000	2	4,000	2
KIT, 125 GPM PUMP W-W	A			6,500	2	6,500	8	6,500	2	6,500	8
KIT, ACCESSORY W-W	A			5,000	13	5,000	2	5,000	13	5,000	2
KIT, WATER	A			24,000	10	24,000	2	24,000	10	24,000	2
KIT, 50K GAL TANK	A			6,500	48	6,500	2	6,500	49	6,500	2
KIT, F.P. FACILITIES	A			2,313	13	2,313	13	2,313	16	2,313	13
KIT, F.P. FACILITIES	A			875	16	875	37	875	16	875	16
KIT, LAUNDRY	A			1,500	14	1,500	2	1,500	14	1,500	2
KIT, AUX 350 PUMP	A			3,500	3	3,500	3	3,500	3	3,500	3
KIT, LARGE NOZZLE	A			1,000	2	1,000	2	1,000	2	1,000	2
KIT, SMALL NOZZLE	A			2,750	7	2,750	7	2,750	7	2,750	7
KIT, TANK INLET	A			2,000	8	2,000	8	2,000	8	2,000	8
LAUNDRY UNIT, TRAILER MTD, M876	A			42,000	8	42,000	8	42,000	8	42,000	8
PAGE TOTAL					22		22		22		22
					2		2		2		2
					4		4		4		4
					4		4		4		4
					168		168		170		172
					355		355		358		361
P-1 SHOPPING LIST										UNCLASSIFIED	
ITEM NO 127										Page of Pages	
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UNCLASSIFIED										
REPORTS CONTROL SYMBOL D-COMP(AR) 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE FORCE PROVIDER (M80200)								
		MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME						
Weapon System Cost Elements		IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
GENERATOR SETS, 60KW/60HZ		A			18,400	50	18,600	50	18,820	50
TRAILERS, AN/MJQ-41/PU-805		A			7,000	50	7,100	50	7,200	50
FLOODLIGHT SET, TRAILER MTD		A			10,000	20	10,100	20	10,200	20
LATRINE		A			35,000	4	35,500	4	35,750	4
SHOWER		A			35,500	4	36,000	4	36,250	4
SHAVE STAND		A			10,000	40	10,000	40	10,250	41
SECONDARY ITEMS						2,527		2,806		2,836
PAGE TOTAL						4,319		4,619		4,670
P-1 SHOPPING LIST										Page of Pages
UNCLASSIFIED										EXHIBIT P-5

UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
FORCE PROVIDER										(M80200)	
WEAPON MODEL/SERIES/POPULAR NAME											
MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST			
Weapon System Cost Elements											
ENGINEERING SERVICES											
GOVERNMENT											
CONTRACTOR											
DEPOT ASSEMBLY											
MODULE ASSEMBLY											
PU-805 ASSEMBLY, M509											
AN/MJQ-41 ASSEMBLY, M511											
ESTING COSTS											
PROVISIONING AND TECHNICAL MANUALS											
QUALITY ASSURANCE											
PAGE TOTAL											
TOTAL											
P-1 SHOPPING LIST										UNCLASSIFIED	
PAGE NO 6 OF 14										Page of Pages	
ITEM NO 127										EXHIBIT P-5	

REPORTS CONTROL SYMBOL		UNCLASSIFIED				DATE February 1995				
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		P-1 ITEM NOMENCLATURE				(M80200)				
APPROPRIATION /BUDGET ACTIVITY		FORCE PROVIDER								
Other Procurement: Army 3										
Other Support Equipment										
POST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE IV/DLA	NOTE 1		6	24,667			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE VII/DLA	NOTE 1		102	11,725			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE VIII/DLA	NOTE 1		8	3,250			
	DPSC, Phila., PA	Reqn	TEMPER TENT, TYPE XV/DLA	NOTE 1		2	29,500			
	DPSC, Phila., PA	Reqn	AIR CONDITIONERS/ATCOM	NOTE 1		18	16,722			
	TBS	C/FP	R454, DISE 100 AMP/ATCOM	FEB 95		128	4,250			
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	NOTE 2		72	5,569			
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	NOTE 2		8	6,000			
	Fed. Prison Ind.	SS/FP	FIELD KITCHEN/ATCOM	NOTE 2		60	2,250			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 95		4	9,750			
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 95		4	5,750			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 95		4	10,000			
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	AUG 95		6	12,333			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 95		4	8,000			
	TBS	C/FP	TANK, 20K GAL/ATCOM	AUG 95		8	7,000			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	AUG 95		6	9,500			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 95		8	2,375			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	AUG 95		4	14,250			
	TBS	C/FP	WATER CHILLER/ATCOM	AUG 95		4	14,250			
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	JUL 95		8	10,250			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 95		6	1,667			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	JUN 95		2	3,000			
	TBS	C/FP		MAY 95		24	2,083			

REMARKS

This is a depot assembly program at Sierra Army Depot, Hertlong, CA

NOTE 1: Awarded Nov 94.

NOTE 2: Awarded Dec 94.

P1 SHOPPING LIST		UNCLASSIFIED	Page of
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REPORTS CONTROL SYMBOL		UNCLASSIFIED				DATE February 1995					
D-COMPIARI 1092		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT									
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement: Army 3		FORCE PROVIDER									
Other Support Equipment		(M80200)									
OST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 95	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	MAR 95		2	1,500				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		14	857				
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	MAR 95		2	4,000				
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	MAR 95		2	6,500				
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	MAR 95		2	5,000				
	TBS	C/FP	KIT, WATER/ATCOM	MAR 95		2	24,000				
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	MAR 95		2	6,500				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	2,313				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	875				
	TBS	C/FP	KIT, LAUNDRY/ATCOM	MAR 95		2	1,500				
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	MAR 95		2	3,500				
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	MAR 95		8	1,000				
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	MAR 95		8	2,750				
	TBS	C/FP	KIT, TANK INLET/ATCOM	MAR 95		2	2,000				
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	JUN 95		4	42,000				
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 95		50	18,400				
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/ATCOM	JUN 95		50	7,000				
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 95		20	10,000				
	TBS	MIPR	LATRINE/AIR FORCE	JAN 95		4	35,000				
	TBS	MIPR	SHOWER/AIRFORCE	JAN 95		4	35,500				
	TBS	MIPR	SHAVE STAND/AIR FORCE	JAN 95		4	10,000				

REMARKS

This is a depot assembly program at Sierra Army Depot, Herlong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

UNCLASSIFIED										DATE February 1995	
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
FORCE PROVIDER											
										(M80200)	
REPORTS CONTROL SYMBOL (D-COMPIAR) 1092	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
(P)ropriation /BUDGET ACTIVITY (other Procurement: Army 3 (other Support Equipment	FY96	TBS	Reqn	TEMPER TENT, TYPE I/DLA	NOV 95	4	25,000				
	TBS	Reqn	TEMPER TENT, TYPE IV/DLA	NOV 95	102	11,853					
	TBS	Reqn	TEMPER TENT, TYPE VII/DLA	NOV 95	8	3,250					
	TBS	Reqn	TEMPER TENT, TYPE VIII/DLA	NOV 95	2	30,000					
	TBS	Reqn	TEMPER TENT, TYPE XV/DLA	NOV 95	18	17,000					
	TBS	C/FP	AIR CONDITIONERS/ATCOM	NOV 95	128	4,297					
	Fed. Prison, Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 95	72	5,625					
	Fed. Prison, Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 95	8	6,125					
	Fed. Prison, Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 95	60	2,267					
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 96	4	9,750					
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 96	4	5,750					
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 96	4	10,000					
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 96	6	12,500					
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	FEB 96	4	8,000					
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 96	8	7,125					
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 96	6	9,667					
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 96	8	2,375					
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 96	4	14,500					
	REMARKS This is a depot assembly program at Sierra Army Depot, Herlong, CA	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 96	4	14,500				
		TBS	C/FP	WATER CHILLER/ATCOM	FEB 96	8	10,375				
TBS		C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 96	6	1,667					
TBS		C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 96	2	3,000					
TBS		C/FP	DRUM, 500 GAL/ATCOM	FEB 96	24	2,125					

PORTS CONTROL SYMBOL		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995			
D-COMPIAR 1092		P-1 ITEM NOMENCLATURE				FORCE PROVIDER				(M80200)			
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				FORCE PROVIDER				(M80200)			
Other Procurement: Army 3		P-1 ITEM NOMENCLATURE				FORCE PROVIDER				(M80200)			
Other Support Equipment		P-1 ITEM NOMENCLATURE				FORCE PROVIDER				(M80200)			
OST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
FY 96	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	NOV 95		2	1,500						
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		14	857						
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	NOV 95		2	4,000						
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	NOV 95		2	6,500						
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 95		2	5,000						
	TBS	C/FP	KIT, WATER/ATCOM	NOV 95		2	24,500						
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	NOV 95		2	6,500						
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	2,313						
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	875						
	TBS	C/FP	KIT, LAUNDRY/ATCOM	NOV 95		2	1,500						
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 95		2	3,500						
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	NOV 95		8	1,000						
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	NOV 95		8	2,750						
	TBS	C/FP	KIT, TANK INLET/ATCOM	NOV 95		2	2,000						
	TBS	C/FP	LAUNDRY UNIT, TLR MTD/ATCOM	FEB 96		4	42,500						
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 96		50	18,600						
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	NOV 95		50	7,100						
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 96		20	10,100						
	TBS	MIPR	LATRINE/AIR FORCE	NOV 95		4	35,500						
	TBS	MIPR	SHOWER/AIRFORCE	NOV 95		4	36,000						
	TBS	MIPR	SHAVE STAND/AIR FORCE	NOV 95		4	10,000						

EMARKS

This is a depot assembly program at Sierra Army Depot, Herlong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

UNCLASSIFIED										DATE February 1995	
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE FORCE PROVIDER										(M80200)	
POST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY97	TBS	Reqn	TEMPER TENT, TYPE I/DLA	NOV 96		4	25,250				
	TBS	Reqn	TEMPER TENT, TYPE IV/DLA	NOV 96		102	11,990				
	TBS	Reqn	TEMPER TENT, TYPE VII/DLA	NOV 96		8	3,375				
	TBS	Reqn	TEMPER TENT, TYPE VIII/DLA	NOV 96		2	30,000				
	TBS	Reqn	TEMPER TENT, TYPE XV/DLA	NOV 96		18	17,000				
	TBS	C/FP	AIR CONDITIONERS/ATCOM	NOV 96		128	4,344				
	Fed. Prison Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 96		72	5,694				
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 96		8	6,125				
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 96		60	2,300				
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 97		4	10,000				
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 97		4	6,000				
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 97		4	10,250				
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 97		6	12,667				
	TBS	C/FP	FORWARD AREA REFUEL SYS/ATCOM	FEB 97		4	8,250				
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 97		8	7,125				
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 97		6	9,667				
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 97		8	2,375				
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 97		4	14,500				
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 97		4	14,500				
	TBS	C/FP	WATER CHILLER/ATCOM	FEB 97		8	10,500				
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 97		6	1,667				
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 97		2	3,000				
	TBS	C/FP	DRUM, 500 GAL/ATCOM	FEB 97		24	2,125				

REMARKS
This is a depot assembly program at Sierra Army Depot, Herlong, CA

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REPORTS CONTROL SYMBOL		UNCLASSIFIED				DATE February 1995					
D-COM(ARI) 1092		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT									
PPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement: Army 3		FORCE PROVIDER									
Other Support Equipment		(M80200)									
OST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 97	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	NOV 96		2	1,500				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		14	857				
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	NOV 96		2	4,000				
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	NOV 96		2	6,500				
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 96		2	5,000				
	TBS	C/FP	KIT, WATER/ATCOM	NOV 96		2	24,500				
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	NOV 96		2	6,500				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		16	2,375				
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		16	875				
	TBS	C/FP	KIT, LAUNDRY/ATCOM	NOV 96		2	1,500				
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 96		2	3,500				
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	NOV 96		8	1,000				
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	NOV 96		8	2,750				
	TBS	C/FP	KIT, TANK INLET/ATCOM	NOV 96		2	2,000				
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	FEB 97		4	43,000				
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 97		50	18,820				
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	NOV 96		50	7,200				
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 97		20	10,200				
	TBS	MIPR	LATRINE/AIR FORCE	NOV 96		4	35,750				
	TBS	MIPR	SHOWER/AIRFORCE	NOV 96		4	36,250				
	TBS	MIPR	SHAVE STAND/AIR FORCE	NOV 96		4	10,250				

REMARKS

This is a depot assembly program at Sierra Army Depot, Hertong, CA

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

[illegible]

CLASSIFIED										DATE February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT (MA5800)									
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY											
COST (IN MILLIONS)			2.2	2.6	5.5			0.2		0.2	
<p>DESCRIPTION: This budget line represents Army tactical refrigeration equipment. It consists of refrigeration units including the 5,000 and 10,000 BTU electric motor driven (EMD), and diesel engine driven (DED) units and the 8' X 8' X 20' refrigerated container. These units are designed to fit into the 150 cu ft pre-formed refrigerated box, and the 600, 1200, 1800, and 4,000 cu ft pre-fabricated refrigeration boxes. This equipment is used to store a variety of perishable items including food, drugs, medical supplies, and temperature sensitive equipment such as batteries and photographic film.</p> <p>JUSTIFICATION: The FY 96 / 97 programs are required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.</p>											
DD Form 2454, Jul 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		EXHIBIT P-40	
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UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
REFRIGERATION EQUIPMENT											
WEAPON MODEL/SERIES/POPULAR NAME											
REFRIGERATION EQUIPMENT ROLL LINE										(MA5800)	
TOTAL COST IN THOUSANDS OF DOLLARS											
Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97		Quantity	
		UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
SSN M919, Refrigerated Container	A				84 2,166						191 5,469
SSN M860, Refrigeration Unit, 5,000 BTU, DED	A								97 833		
SSN M849, Refrigeration Unit, 10,000 BTU, DED	A								151 1,357		
SSN M858, Refrigeration Unit, 5,000 BTU, EMD	A								65 372		
TOTAL					2,166				2,562		5,469
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CLASSIFIED

REPORTS CONTAIN SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATED CONTAINER 8' X 8' X 20'

(M91900)

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)		2.2		5.5				

DESCRIPTION: This item is a Military Standard 20 foot Refrigerated Container equipped with a 9,000 BTU (Government Furnished Equipment (GFE)) per hour electric motor driven refrigeration unit powered by a self-contained GFE 10 KW Diesel Engine Driven (DED) Generator Set. This refrigerated container provides controlled temperature storage for food (produce, dairy products, meats and liquids), medical supplies, drugs, and other temperature sensitive items such as batteries and photographic film.

JUSTIFICATION: The Refrigerated Container is an integral part of Perishable Subsistence Platoons (PSP). The FY95/97 programs replace a portion of the overaged containers currently used in the PSP.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT							
		P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT							
		WEAPON MODEL/SERIES/POPULAR NAME REFRIGERATED CONTAINER 8' X 8' X 20' (M91900)							
		MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P5-A							
		TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94 UNIT COST		Quantity TOTAL COST		FY 96 UNIT COST		Quantity TOTAL COST	
		IDENT CODE							
Weapon System Cost Elements		A		24,690		84 2,074		27,466	
Item Hardware								191 5,246	
Government Engineering								75	
Documentation								60	
First Article Testing								88	
TOTAL						2,166		5,469	
		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages EXP P-5	
		ITEM NO 128				PAGE NO 4 OF 19			

REPORTS CONTRA MBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE REFRIGERATED CONTAINER 8' X 8' X 20'		(M91900)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 95	SEA BOX INC, S. Kearny, N. J.	C/FP-REQ3(1)	ATCOM	Apr 95	Jul 95	84	24,690	YES	NO	
FY 97	TBS	C/FP-Option	ATCOM	Feb 97	Feb 98	191	27,466	YES	NO	
REMARKS The FY 95 program will be added, via an option clause, to a current FY 93 contract for DEPMEDS Refrigerated Containers. The FY 97 program will be a new buy using Invitation for Bid with an option.										
P1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		EXHIBIT P-5A		
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APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

Other Support Equipment

REFRIGERATED CONTAINER 8' X 8' X 20'

(M91900)

[illegible]

REMARKS: FY 95 program is to be added via option clause to a current DEPMEDS contract. Award of contract is delayed pending approval of FAT expected Mar 95. The FY 97 program will be a new buy using IFB with option clause.

F A C	MANUFACTURERS NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY	PRODUCTION LEAD TIME				TOTAL AFTER 1 OCT
		MIN	1-8-5	MAX		ADMIN LEAD TIME		MANUFACTURING TIME		
						PRIOR 1 OCT	AFTER 1 OCT			
1	SEA BOX INC., S. KEARNY, N. J.	20	50	75	5					
2	TBS	20	50	75	5					
						INITIAL	4	13	17	
						REORDER	2	4	6	

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S E R		ACCEP PRIOR TO		BAL DUE AS OF	FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 00			L A T E R														
F A C		U M E A	QTY	1 OCT	CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			CALENDAR YEAR 00														
1	A	95	84	84	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2	A	97	191	191				25	50	50	50	16																
TOTALS									25	50	50	50	16															
MANUFACTURERS NAME & LOCATION					PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY			PRODUCTION LEAD TIME			REMARKS														
					MIN		1-8-5		MAX		ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT											
1 SEA BOX INC., S. KEARNY, N. J.					20		50		75		PRIOR 1 OCT			AFTER 1 OCT			13			17								
2 TBS					20		50		75		INITIAL			REORDER			4			6								

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P-1 SHOPPING LIST

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REPORTS COMBINED SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE February 1995																																			
BUDGET ITEM JUSTIFICATION SHEET																																															
P-1 ITEM NOMENCLATURE																																															
REFRIGERATION UNIT, 5,000 BTU, DED (M860000)																																															
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment																																															
<table border="1"> <tr> <td></td> <td>FY 94</td> <td>FY 95</td> <td>FY 96</td> <td>FY 97</td> <td>FY 98</td> <td>FY 99</td> <td>FY 00</td> <td>FY 01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>QUANTITY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>COST (IN MILLIONS)</td> <td></td> <td></td> <td>0.8</td> <td></td> <td></td> <td></td> <td>0.2</td> <td></td> <td></td> <td></td> <td>0.2</td> </tr> </table>													FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				QUANTITY												COST (IN MILLIONS)			0.8				0.2				0.2
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01																																							
QUANTITY																																															
COST (IN MILLIONS)			0.8				0.2				0.2																																				
<p>DESCRIPTION: The Refrigeration Unit, 5,000 BTU Diesel Engine Driven (DED) is a self-contained package consisting of condenser and evaporator sections designed to fit into the wall opening of the 150 cubic foot pre-formed refrigerated boxes. The unit is self powered using an internal diesel fueled engine. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.</p> <p>JUSTIFICATION: The FY96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.</p>																																															
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P-1 SHOPPING LIST																																															
UNCLASSIFIED																																															
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UNCLASSIFIED						DATE February 1995			
WEAPON SYSTEM COST ANALYSIS EXHIBIT									
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT							
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		WEAPON MODEL/SERIES/POPULAR NAME REFRIGERATION UNIT, 5,000 BTU, DED (M86000)							
		MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P5-A							
		TOTAL COST IN THOUSANDS OF DOLLARS							
		FY 94	Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Weapon System Cost Elements									
Item Hardware		A				8,278	97		
Government Engineering							803		
							30		
TOTAL							833		

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REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT					DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE REFRIGERATION UNIT, 5,000 BTU, DED										(M86000)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
FY 92	KECO INC, Florence, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Apr 96	115	8,278	YES	NO				
FY 93	KECO INC, Florence, KY	C/FP-REQ3(1)	ATCOM	Feb 94	May 96	76	8,278	YES	NO				
FY 96	KECO INC, Florence, KY	C/FP-REQ3(2)	ATCOM	Dec 95	May 96	97	8,278	YES	NO				
REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ). Unit cost for FY 96 was extracted from ordering period of current contract.													
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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Other Procurement: Army 3

Other Support Equipment

REFRIGERATION UNIT, 5,000 BTU, DED

(M86000)

S F A C	E R V	U M E A	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			L A T E R											
					93	94	95	96	95	96	95	96	96	97														
					CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR														
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	92	115	115																								
1	A	93	76	76																								
1	A	96	97	97																								
1	AF	92	2	2																								
TOTALS																												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MANUFACTURERS NAME & LOCATION					PRODUCTION RATES												MONTHS TO REACH MAX AFTER D DAY				REMARKS							
					MIN			1-8-5			MAX			AFTER D DAY			ADMIN LEAD TIME				MANUFACTURING TIME				TOTAL AFTER 1 OCT			
1 KEOCO INC, FLORENCE, KY					35			100			140			6			PRIORITY 1 OCT				PRIORITY 1 OCT				PRIORITY 1 OCT			
																	INITIAL				REORDER				8 of FAT			
																	5				2				32			
																	1				6				8			

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EXHIBIT

REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		CLASSIFIED BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE REFRIGERATION UNIT, 10,000 BTU, DED (M84900)						
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
QUANTITY				151				FY01
COST (IN MILLIONS)				1.4				
<p>DESCRIPTION: A self-contained, military specification unit consisting of a condenser and evaporation section, designed to fit into the wall opening of the 600, 1200, 1800, and 4000 cu ft pre-fabricated refrigerated boxes. This unit is self powered by a 12 volt, air cooled diesel engine with a refrigerant that will comply with EPA and DOD directive for replacement of chlorofluorocarbons (CFC) R12 in all refrigeration equipment. It provides temperature controlled storage for items such as food, drugs and medical supplies, batteries and photographic film.</p> <p>JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R - 12 Refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.</p>								
DD Form 2454, Jul 88		P-1 SHOPPING LIST			UNCLASSIFIED		Page of Pages EXHIBIT P-40	
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT							
		MANUFACTURER NAME PLANT CITY/STATE LOCATION KECCO, INC FLORENCE, KY		WEAPON MODEL/SERIES/POPULAR NAME REFRIGERATION UNIT, 10,000 BTU, DED (M84900)					
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS		FY 95		FY 96		FY 97	
		IDENT CODE	Quantity	UNIT COST	Quantity	UNIT COST	Quantity	UNIT COST	Quantity
			TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST
Item Hardware		A				8,642	151		
Government Engineering							1,305		
							52		
TOTAL								1,357	
P-1 SHOPPING LIST				UNCLASSIFIED		Page of		Pages	
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REPORTS CONTAINING SYMBOL		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT			DATE February 1995						
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE														
APPROPRIATION /BUDGET ACTIVITY		REFRIGERATION UNIT, 10,000 BTU, DED														
Other Procurement: Army 3		(M84900)														
Other Support Equipment																
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE						
FY 92	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	5	8,642	YES	NO							
FY 93	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	82	8,642	YES	NO							
FY 96	KECO, INC FLORENCE, KY	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	151	8,642	YES	NO							
REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ).																
P1 SHOPPING LIST											Page	of	Pages			
ITEM NO 128											UNCLASSIFIED			EXHIBIT P-5A		
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REPORTS CONTROL SYMBOL

ID-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE February 1995

PROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 10,000 BTU, DED

(M84900)

S F A C	E R V	U/E EA FY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			FISCAL YEAR			L A T E R							
					94			95			96			96										
					CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR			CALENDAR YEAR										
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	A	92	5	5																				
1	A	93	82	82																				
1	A	96	151	151																				
TOTALS				238																				
MANUFACTURERS NAME & LOCATION				1 KECO INC., FLORENCE, KY																				
MONTHS TO REACH MAX AFTER D DAY				6																				
PRODUCTION RATES				MIN 35 1-8-5 MAX 100 140																				
ADMIN LEAD TIME				PRIORITY 1 OCT 5 2																				
MANUFACTURING TIME				TOTAL AFTER 1 OCT 26 4																				
REORDER				INITIAL 1 2																				
REMARKS:				Contract award was delayed due to requirement to update Mil Specs. to replace all ozone depleting substances and due to requirement for a complete technical evaluation. Prior court ruling required ATCOM to request and evaluate additional technical information from bidders. Procurement LT 31 mos. includes extensive First Article Test on new refrigerant and long leadtime components.																				

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EXHIBIT

CLASSIFIED										DATE February 1995
BUDGET ITEM JUSTIFICATION SHEET										
P-1 ITEM NOMENCLATURE										
REFRIGERATION UNIT, 5,000 BTU, EMD (M85800)										
REPORTS CONTINENTAL SYMBOL DD-COMP(AR) 1092 APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST (IN MILLIONS)			0.4							
DESCRIPTION: This refrigeration unit is a self-contained package unit consisting of a condenser and evaporator sections designed to fit into the wall opening of the 150 cu ft pre-formed refrigerated boxes. This unit requires power from a military generator or local electrical power to operate. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.										
JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R - 12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.										
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REPORTS CONTROL SYMBOL		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995	
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE									
APPROPRIATION /BUDGET ACTIVITY		REFRIGERATION EQUIPMENT									
Other Procurement: Army 3											
Other Support Equipment											
		MANUFACTURER NAME		PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME					
		KECO, INC		FLORENCE, KY		REFRIGERATION UNIT, 5,000 BTU, EMD		(M85800)			
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS									
IDENT CODE	FY 94	Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity	TOTAL COST		
									UNIT COST	TOTAL COST	UNIT COST
Item Hardware Engineering Government	A										
									5,400	65 351 21	
TOTAL										372	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

REFRIGERATION UNIT, 5,000 BTU, EMD

(M85800)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 92	KECO INC FLORENCE, KY	C/FR-REQ3(1)	ATCOM	Feb 94	Apr 96	8	5,376	YES	NO	
FY 93	KECO INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Apr 96	3	5,376	YES	NO	
FY 96	KECO INC FLORENCE, KY	C/FP-REQ3(2)	ATCOM	Dec 95	Apr 96	65	5,400	YES	NO	

REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ).

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UNCLASSIFIED										DATE February 1995									
REPORTS CONTROL SYMBOL										P-1 ITEM NOMENCLATURE									
DD-COMP(AR) 1092										REFRIGERATION UNIT, 5,000 BTU, EMD									
APPROPRIATION/BUDGET ACTIVITY										REMARKS: Contract award was delayed due to requirement to update Mil Specs. to replace all ozone depleting substances and due to requirement for a complete technical evaluation. Prior court ruling required ATCOM to request and evaluate additional technical information from bidders. Procurement LT 32 mos. includes extensive First Article Test on new refrigerant and long leadtime components.									
Other Procurement: Army 3																			
Other Support Equipment																			
S E		U/M EA		ACCEP PRIOR TO		BAL DUE		FISCAL YEAR		FISCAL YEAR		FISCAL YEAR		FISCAL YEAR		FISCAL YEAR			
F A C		R V		FY		QTY		OCT 1		OCT 1		OCT 1		OCT 1		OCT 1			
1 A		92		8		8		8		8		8		8		8			
1 A		93		3		3		3		3		3		3		3			
1 A		96		65		65		65		65		65		65		65			
1 N		89		2		2		2		2		2		2		2			
1 N		93		7		7		7		7		7		7		7			
1 N		94		3		3		3		3		3		3		3			
1 IL		94		20		20		20		20		20		20		20			
TOTALS				108		108		108		108		108		108		108			
F A C		MANUFACTURERS NAME & LOCATION		MIN		1-8-5		MAX		MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT			
1		KECO INC, FLORENCE, KY		35		100		140		6		PRIORITY 1 OCT		27		32			
												PRIORITY 1 OCT		4		6			
												REORDER							
												INITIAL							
												REORDER							

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		BUDGET ITEM JUSTIFICATION SHEET											
		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (CSS-EQ)										(ML5325)	
QUANTITY		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
COST (IN MILLIONS)		2.8	4.4	2.2	2.8	2.2	2.4	2.9	4.9				

DESCRIPTION: This program covers combat support equipment which has individual procurements less than \$2 million annually. All acquisitions made with these funds are designated to support vital high priority requirements for combat service equipment. The types of items procured on this budget line include heaters, non-breathable air compressors, aerial delivery equipment, and food sanitation equipment. These types of systems and equipment support the combat readiness and quality of life of every soldier in the Army, every day.

JUSTIFICATION: These programs fill critical field user shortages and replace overaged, non-supportable and non-reparable assets. This type of equipment is subject to high wash out rates due to its extensive, daily use and low unit price. Consequently, this equipment becomes uneconomical repairable sooner than more expensive end items. This budget lines provides the flexibility to meet critical, "short fuse" requirements for combat support equipment. The FY 96/97 programs support primarily acquisition of the Food Sanitation Center and the Containerized Shower System. The Food Sanitation Center programs are in direct support of Army Field Feeding - Future.

REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE February 1995				
DD-COMP(AR) 1092								
APPROPRIATION /BUDGET ACTIVITY		WEAPON SYSTEM COST ANALYSIS EXHIBIT						
Other Procurement: Army 3		P-1 ITEM NOMENCLATURE						
Other Support Equipment		ITEMS LESS THAN \$2.0M (CSS-EQ)						
		(ML5325)						
COST (IN MILLIONS)		MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME				
		PLANT CITY/STATE LOCATION						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS						
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
M005, Compressor, 5 cfm				105				
M095, Compressor, 5 cfm			2,286	240				
M196, Army Space Heater			1,455	167				
M284, Boat Inflatable		128		243				
M359, Outboard Motor		670						
M665, Food Sanitation Center		13		175				64
M721, Light Set, Trailer Mounted		9,154	8,714	1,525				863
M824, Containerized Shower System		857		16				
M824, Portable Bath Units		2,000		206				
M919, Refrigerated Container: Engineering		139		150				
M941, Truck, Firefighting, Structure		20,000		1,926				
R174, Survey Set, Target		50						
No SSN, Relocatable Building								
M866, Mobile Kitchen Trailer								
* Funds reprogrammed from Arms Control Compliance								
TOTAL		2,782		4,608				2,796

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		UNCLASSIFIED										DATE February 1995	
ITEMS LESS THAN \$ 2 MILLION DOLLARS													
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE											
Other Procurement: Army 3		ITEMS LESS THAN \$2.0M (CSS-EQ)											
Other Support Equipment		FY 95											
		(ML5325)											
COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE			
1	M005, Compressor, 5 cfm	4,451	3,630	3,735	2,286	105	240	FP	C	Jun-95			
2	M095, Compressor, 5 cfm	7,784	6,720	6,887	1,455	167	243	FP	C	Jun-95			
3	M284, Boat Inflatable	384	160	335	8,714	175	1,525	FP	C	Aug-95			
4	M665, Food Sanitation Center	2,148	854	870	12,875	16	206	FP	C	Jul-95			
5	M721, Light Set, Trailer Mounted	3,647	2,484	2,634	12,840	150	1,926	FP	C	Mar-95			
6	R174, Survey Set, Target	697	149	298	1,403	149	209	FP	C	Jul-95			
7	No SSN, Relocatable Building	N/A	N/A	1	170,000	1	170	FP	C	Feb-95			
8	M866, Mobile Kitchen Trailer	4,862	4,280	4,285	17,800	5	89	FP/OPT	C	Mar-96			
Award of the Mobile Kitchen Trailer funds will occur after completion of First Article Test (FAT). Initial contract to award March 95.													
TOTAL							4,608						
P-1 SHOPPING LIST												UNCLASSIFIED	Page of Pages
ITEM NO 129												PAGE NO 3 OF 5	EXHIBIT P-3B

REPORTS CONTROL SYMBOL DD-COMP(ARI) 1092		UNCLASSIFIED		DATE February 1995						
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		ITEMS LESS THAN \$ 2 MILLION DOLLARS		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (CSS-EQ) FY 96 (ML5325)						
COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M665, Food Sanitation Center	2,148	870	1,004	13,157	134	1,763	FP	C	Feb-96
2	M824, Containerized Shower System	487	284	307	19,957	23	459	FP	C	Feb-96
TOTAL							2,222			
P-1 SHOPPING LIST										
ITEM NO 129		PAGE NO 4		OF 5		UNCLASSIFIED		Page of Pages EXHIBIT P-3B		

REPORTS CONTROL SYMBOL		UNCLASSIFIED					ITEMS LESS THAN \$ 2 MILLION DOLLARS			DATE February 1995		
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE										
APPROPRIATION /BUDGET ACTIVITY		ITEMS LESS THAN \$2.0M (CSS-EQ)										
Other Procurement: Army 3		FY 97										
Other Support Equipment		(ML5325)										
COST ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE		
1	M665, Food Sanitation Center	2,148	1,004	1,068	13,484	64	863	FP	C	Feb-96		
2	M824, Containerized Shower System	487	307	382	19,907	75	1,493	FP	C	Feb-96		
3	M941, Truck, Firefighting, Structure	188	65	67	220,000	2	440	FP	C	Jan-96		
TOTAL							2,796					
P-1 SHOPPING LIST											Page of Pages	
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UNCLASSIFIED										DATE February 1995							
BUDGET ITEM JUSTIFICATION SHEET																	
P-1 ITEM NOMENCLATURE																	
LAB PETROLEUM MODULAR BASE										(M68500)							
REPORT'S CONTROL SYMBOL DD-COMP(AR) 1092 APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY											1	1					
COST (IN MILLIONS)											2.3	2.8					

DESCRIPTION: This mobile laboratory performs a wide range of petroleum product, oils and lubricant analysis including oil analysis, quality surveillance and acceptance testing. It provides theater commanders with a highly deployable, self sufficient base laboratory capability. The laboratory consists of two modules. Module A is one laboratory, semi-trailer mounted. Module B is a second laboratory, semi-trailer mounted, containing additional test and administrative equipment. The laboratory is air transportable in a C-130 or larger aircraft.

JUSTIFICATION: Currently, commanders can perform this type of petroleum testing and analysis only in a fixed installation facility. The FY 96 program acquires one A and two B modules. A complete laboratory will go to the 475th Petroleum Group and a Module B will go to the Quartermaster Center and School.

APPROPRIATION/BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

LAB PETROLEUM MODULAR BASE

(M68500)

Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						WEAPON MODEL/SERIES/POPULAR NAME	
		FY 94		FY 95		FY 96		LAB BASE	
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
Hardware	A			2,169,000	1 2,169	2,718,000	1 2,718		
Module A				1,620,000	(1) (1,620)	1,620,000	(1) (1,620)		
Module B				549,000	(1) (549)	549,000	(2) (1,098)		
Government Engineering					97		68		
Documentation					77				
NOTE: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the FY 96 program is for one A and two B modules.									
TOTAL				2,343,000	2,343	2,786,000	2,786		
P-1 SHOPPING LIST								UNCLASSIFIED	Page of Pages EXHIBIT P-5
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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

DATE February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

LAB PETROLEUM MODULAR BASE

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	(M68500)
95	TBS	C/FP-REQ-2(1)	ATCOM	Jul 95	Jul 96	1 Module A Module B	2,169,000 1,620,000 549,000	YES YES YES	NO NO NO		
96	TBS	C/FP-REQ-2(2)	ATCOM	Aug 96	Oct 96	1 Module A Module B	2,718,000 1,620,000 549,000	YES YES YES	NO NO NO		

REMARKS: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the FY 96 program is for one A and two B modules.

P1 SHOPPING LIST

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PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

LAB PETROLEUM MODULAR BASE

Other Support Equipment

Other Support Equipment

S F E A R C V		U/M EA	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			L A T E R														
					94			95			96				97													
		FY	QTY		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	95	Mod A 1 Mod B 1		1 1																							
1	A	96	Mod A 1 Mod B 2		1 2																							
TOTALS					5																							
MANUFACTURERS NAME & LOCATION					PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY			PRODUCTION LEAD TIME			REMARKS: Award of the FY 96 program is based on successful completion of the First Article Test (FAT).														
					MIN 1-8-5			MAX 4			ADMIN LEAD TIME			TOTAL AFTER 1 OCT														
1 TBS					1 2			6			PRIOR AFTER 1 OCT 1 OCT			22														
											INITIAL			3														
											REORDER			6														

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) (MA5120)							
QUANTITY		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (IN MILLIONS)	0.3		3.7	1.1	1.1	1.1	1.1	1.2	1.2

DESCRIPTION: The U. S. Army has the mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations. The Inland Petroleum Distribution System (IPDS) provides bulk fuels support to military forces when deployed world wide. As Operational Projects Stocks (OPS), IPDS supports the United States Central Command (CENTCOM) as well as other unified commands' world wide contingency plans when executed. The major components of IPDS are the Tactical Petroleum Terminals (TPT), Mainline Pump Stations, and 6 inch pipeline. The system also includes facilities, software, training and planning documentation.

JUSTIFICATION: The FY 96/97 programs support the reconfiguration of the IPDS deployed to Southwest Asia (Desert Shield/Storm), supporting ongoing IPDS requirements for the Army Strategic Mobility Plan, and other contingencies such as Somalia. All items in the FY 96/97 program, except the Bulk Fuel Tank Assembly (BFTA), are needed to meet established IPDS requirements. The BFATAs are being procured based on the self life and corresponding wash out of the existing tanks. BFATAs are also the most likely components to be damaged during exercises such as the Joint Logistics Over The Shore (JLOTS) or deployment. The Critical Gap Crossings to be procured will be a new design that significantly reduces installation time as compared to the existing inventory.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995		
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) (MA5120)						
MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS						
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Engineering - Government		266		394		3		11
Bulk Fuel Tank Assembly	A		28,457	94	28,444	18	28,417	12
Tool Kit, Pipe Cutting	A		64,778	9		512		341
200 FT Truss Bridge	A			583	25,000	12		
20 FT Flat Rack	A				3,000	100	3,000	100
Refabricated Critical Gap Crossing	A					300		300
6 Inch Drains	A						1,855	83
							375	154
								800
								300
TOTAL		266		3,652		1,115		1,106

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) BULK FUEL TANK ASSEMBLY (MA5120)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY93	Bell Avon, Picayune, MS	C/FP-Option	ATCOM	Sep 93	Nov 94	25	26,148	YES	NO	
FY95	TBS	C/FP-REQ-5(1)	ATCOM	Jul 95	Sep 96	94	28,457	YES	NO	
FY96	TBS	C/FP-REQ-5(2)	ATCOM	Sep 96	Jun 97	18	28,444	YES	NO	
FY97	TBS	C/FP-REQ-5(3)	ATCOM	Mar 97	Aug 97	12	28,417	YES	NO	
REMARKS										
P-1 SHOPPING LIST						UNCLASSIFIED		Page of Pages EXHIBIT P-5A		
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) TOOL KIT PIPE CUTTING (MA5120)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	TBS	C/FP	ATCOM	May 95	Apr 96	9	64,778	YES	NO	
REMARKS										

P-1 SHOPPING LIST		UNCLASSIFIED	Page of Pages
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092										UNCLASSIFIED										DATE February 1995									
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) TOOL KIT, PIPE CUTTING										(MAS120)									
FISCAL YEAR 95										FISCAL YEAR 96										FISCAL YEAR 97									
CALENDAR YEAR 95										CALENDAR YEAR 96										CALENDAR YEAR 97									
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC										JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC										JAN FEB MAR APR MAY JUN JUL AUG SEP									
BAL DUE AS OF 1 OCT										ACCEP PRIOR TO 1 OCT										QTY									
1 A 95 9										A										1 8									
TOTALS										9										1 8									
F A C										MANUFACTURERS NAME & LOCATION										REMARKS									
1 TBS										MIN 3										RATES 1-8.5 MAX 25									
										MONTHS TO REACH MAX AFTER D DAY 6										ADMIN LEAD TIME									
																				PRIOR AFTER 1 OCT 1 OCT									
																				MANUFACTURING TIME									
																				TOTAL AFTER 1 OCT									
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																				REORDER 1									
P-1 SHOPPING LIST										UNCLASSIFIED										Page of Pages									
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1985	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) 200 FOOT TRUSS BRIDGE									
										(MA5120)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY96	TBS	C/FP	ATCOM	Mar 96	Mar 97	12	25,000	YES	NO		
REMARKS											
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PRODUCTION SCHEDULE

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DD-COMP(AR) 1082

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

DATE February 1995

P.1 ITEM NOMENCLATURE

INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)

200 FT TRUSS BRIDGE

(MA5120)

[illegible]

P-1 SHOPPING LIST

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96	96	96	96
97	97	97	97
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092				UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment				P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) 20 FOOT FLAT RACK								(MA5120)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
FY96	TBS	C/FP-REQ-5(1)	ATCOM	Mar 96	Aug 96	100	3,000	NO	YES	Aug 95			
FY97	TBS	C/FP-REQ-5(2)	ATCOM	Feb 97	Mar 97	100	3,000	YES					
REMARKS													
P-1 SHOPPING LIST ITEM NO 131											UNCLASSIFIED	Page of Pages EXHIBIT P-5A	

DATE February 1995

P-1 ITEM NOMENCLATURE
INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)
20 FT FLAT RACK

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) REFABRICATED CRITICAL GAP CROSSING (MA5120)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97	TBS	C/FP	ATCOM	Mar 97	Oct 97	83	1,855	NO	YES	Jun 96
REMARKS										
P-1 SHOPPING LIST										
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REPORTS CONTROL SYMBOL		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT					DATE February 1995			
DD-COMP(AR) 1092										
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
Other Procurement: Army 3		INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)								
Other Support Equipment		SIX-INCH DRAINS								
		(MA5120)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY97	TBS	C/FP	ATCOM	Mar 97	Aug 97	800	375	NO	YES	Jun 98
REMARKS										

P-1 SHOPPING LIST		UNCLASSIFIED	Page of Pages
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE HEMTT AVIATION REFUELING SYSTEM (R21900)					
	FY94*	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY	82	113	21				FY01
COST (IN MILLIONS)	2.0	3.0	0.5				
<p>DESCRIPTION: This system provides the Heavy Expanded Mobility Tactical Truck (HEMTT) Tanker the capability to refuel 4 aircraft simultaneously. It consists of lightweight collapsible hose; closed circuit, open port and underwing (D-1 Type) nozzles; quick disconnect, sexless, dry-break couplings and wysses and tees.</p> <p>JUSTIFICATION: The HEMTT Tanker Aviation Refueling System (HTARS) is urgently needed by all aviation units to provide faster and more efficient refueling of aircraft during combat and peacetime operations. With HTARS the tanker can refuel four aircraft at a time rather than only one without it. The FY 96 HTARS program is required to meet current shortages to the AAO.</p> <p>* FY94 Program was funded out of "Items Less Than \$2M POL Line".</p>							
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		PAGE NO 1 OF 5		Page of Pages		EXHIBIT P-40	

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE HEMTT AVIATION REFUELING SYSTEM (R21900)									
		MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P-5A		WEAPON MODEL/SERIES/POPULAR NAME HTARS							
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS									
		IDENT CODE	FY 94* UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST	
HARDWARE		A	24,012	82 1,969*	26,009	113 2,939	26,000	21 546			
GOVERNMENT ENGINEERING						16					
PRODUCT ASSURANCE						5					
DOCUMENTATION						5					
* FY94 Program was funded out of "Items Less Than \$2M POL Line".											
TOTAL			24,012	1,969	26,425	2,965	26,000	546			
P-1 SHOPPING LIST											
UNCLASSIFIED											
Page of Pages											
EXHIBIT P-5											

REPORTS CONTAINING SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE HEMTT AVIATION REFUELING SYSTEM								
		(R21900)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY92	EASI, ST. LOUIS, MO	C/FP-OPTION	TROSCOM	Aug 92	Apr 94	320	23,791	YES	NO	
FY94	EASI, ST. LOUIS, MO	C/FP-OPTION	ATCOM	Apr 94	May 95	82	24,012	YES	NO	
FY95	TBS	C/FP-REQ-2(1)	ATCOM	Jul 96	Apr 96	113	26,009	YES	NO	
FY96	TBS	C/FP-REQ-2(2)	ATCOM	Apr 96	Aug 96	21	26,009	YES	NO	
REMARKS										
		P1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		EXHIBIT P-5A
		ITEM NO 132				PAGE NO 3 OF 5				

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE February 1995																			
DD FORM 1092										P-1 ITEM NOMENCLATURE										HEMTT AVIATION REFUELING SYSTEM																			
APPROPRIATION/BUDGET ACTIVITY										FISCAL YEAR 93										FISCAL YEAR 94										FISCAL YEAR 95									
Other Procurement: Army 3										CALENDAR YEAR 93										CALENDAR YEAR 94										CALENDAR YEAR 95									
Other Support Equipment										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP									
										BAL DUE AS OF 1 OCT										ACCEP PRIOR TO 1 OCT										S U/M EA FY QTY									
										1 OCT										1 OCT										1 OCT									
1 A 92 320										320																													
1 A 94 82										82																													
2 A 95 113										113																													
2 A 96 21										21																													
TOTALS										536																													
F A C										MANUFACTURERS NAME & LOCATION										PRODUCTION RATES										MONTHS TO REACH MAX AFTER D DAY									
1 EASI, St. Louis, MO																				MIN 6 25 45										4									
2 TBS																				6 25 45										4									
										INITIAL										REORDER																			
										ADMIN LEAD TIME										PRODUCTION LEAD TIME																			
										PRIOR 1 OCT										AFTER 1 OCT										TOTAL AFTER 1 OCT									
										9										3										8									
										10										5										19									
										REMARKS: FY 92 award delayed due to drawing errors in technical data package, numerous bidder questions during solicitation, and an error by the low bidder. The FY 94 award is actual. FY 96 contract will be awarded after FAT.																													

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P-1 SHOPPING LIST

UNCLASSIFIED

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EXHIBIT B-21

DATE February 1995

P-1 ITEM NOMENCLATURE

HEMTT AVIATION REFUELING SYSTEM

(R21900)

S F E A R V C		U/M EA QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R														
					95			96			97				98													
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	92	320																									
1	A	94	82																									
2	A	95	113	113																								
2	A	96	21	21																								
TOTALS			402	134							25	25	25	25	25	9												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MANUFACTURERS NAME & LOCATION					PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY			PRODUCTION LEAD TIME			REMARKS														
					MIN		1-8-5		MAX		ADMIN LEAD TIME		MANUFACTURING TIME				TOTAL AFTER '1 OCT											
1	EASI, St. Louis, MO				6	25	45	4	PRIOR '1 OCT		AFTER 1 OCT		7		10		17											
2	TBS				6	25	45	4					INITIAL		REORDER		8											

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET										DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL) (ML5330)											
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
QUANTITY													
COST (IN MILLIONS)		11.1	8.6	5.5	9.0	2.4	2.5	2.6	2.6				
<p>DESCRIPTION: These programs include wide and diverse variety of Petroleum, Oil and Lubricants (POL) equipment which have annual procurement programs of less than \$2 million. These programs support the Army's mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations.</p> <p>JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets resulting in high washouts and losses. New technology improves combat capability and, as a result, reduces personnel requirements. The FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.</p>													
DD Form 2454, Jul 88		ITEM NO 133				P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages EXHIBIT P-40	
		PAGE NO 1				OF 5							

REPORTS CONTROL SYMBOL		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995	
DD-COMP(AR) 1092						P-1 ITEM NOMENCLATURE					
APPROPRIATION /BUDGET ACTIVITY						ITEMS LESS THEN \$2.0M (POL)					
Other Procurement: Army 3						(ML5330)					
Other Support Equipment											
		MANUFACTURER NAME		PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME					
Weapon System Cost Elements		IDENT CODE		FY 94		FY 95		FY 96		FY 97	
				UNIT COST		UNIT COST		UNIT COST		UNIT COST	
				TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
				Quantity		Quantity		Quantity		Quantity	
				TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
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				TOTAL COST							

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				ITEMS LESS THAN \$2 MILLION DOLLARS			DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL) FY 95							(ML5330)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M603, FUEL SYSTEM SUPPLY POINT	747	525	580	26,154	65	1,700	FP/REQ	C	Jun-95
2	M612, PUMP ASSY 350 GPM	242	180	230	22,091	55	1,215	FP/REQ	C	Aug-95
3	M638, PUMP ASSEMBLY, 50 GPM	1,338	800	890	3,622	119	431	FP/REQ	C	Jul-95
4	M641, LUBE-SERV UNIT	864	675	680	29,600	60	1,776	FP/REQ	C	Mar-95
5	M730, FUEL TEST KIT, AVIATION	729	617	675	5,500	140	770	FP/REQ	C	Jul-95
6	M940, FILT SEP, 350 GPM	1,999	1,855	1,955	3,923	505	1,981	FP/REQ	C	Jun-95
7	R384, TANK POL 3000 GAL	266	300	260	3,114	237	738	FP/REQ	C	Jun-95
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.										
TOTAL PROGRAM							8,611			
P-1 SHOPPING LIST		UNCLASSIFIED					Page of Pages			
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NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.

UNCLASSIFIED										
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092					ITEMS LESS THAN \$2 MILLION DOLLARS					DATE February 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL) FY 96 (ML5330)					
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY TY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M603, FUEL SYSTEM SUPPLY POINT	747	580	600	26,167	30	785	FP/REQ	C	35,096
2	M612, PUMP ASSY 350 GPM	242	230	235	22,100	20	442	FP/REQ	C	35,125
3	M638, PUMP ASSY, 50 GPM	1,338	890	1,100	3,620	250	905	FP/REQ	C	35,125
4	M641, LUBE-SERV UNIT	864	680	700	29,604	48	1,421	FP/REQ	C	35,096
5	M730, FUEL TEST KIT, AVIATION	729	675	710	5,500	100	550	FP/REQ	C	35,125
6	M908, HOSELINE OUTFIT	176	172	174	69,000	11	759	FP/REQ	C	35,125
7	M940, FILT SEP, 350 GPM	1,999	1,955	1,975	3,924	172	675	FP/REQ	C	35,125
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.										
TOTAL							5,537			
P-1 SHOPPING LIST					UNCLASSIFIED			Page of Pages		
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		ITEMS LESS THAN \$ 2 MILLION DOLLARS		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL) FY 97		(ML5330)						
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M803, FUEL SYSTEM SUPPLY POINT	747	600	650	26,150	60	1,569	FP/REQ	C	Feb-97
2	M612, PUMP ASSY 350 GPM	242	235	240	22,095	74	1,635	FP/REQ	C	Mar-97
3	M638, PUMP ASSY, 50 GPM	1,338	1,100	1,295	3,620	308	1,115	FP/REQ	C	Mar-97
4	M641, LUBE-SERV UNIT	864	700	725	29,610	41	1,214	FP/REQ	C	Feb-97
5	M730, FUEL TEST KIT, AVIATION	729	710	725	5,500	174	957	FP/REQ	C	Mar-97
6	M908, HOSELINE OUTFIT	176	174	176	69,000	18	1,242	FP/REQ	C	Mar-97
7	M940, FILT SEP, 350 GPM	1,999	1,975	1,995	3,925	334	1,311	FP/REQ	C	Mar-97
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.										
TOTAL						9,043				
P-1 SHOPPING LIST							UNCLASSIFIED		Page of Pages	
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REPORTS CONTAINING SYMBOL		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
DD-COMP(AR) 1092				P-1 ITEM NOMENCLATURE			
APPROPRIATION /BUDGET ACTIVITY				FWD AREA WTR POINT SUP SYSTEM		(M18100)	
Other Procurement: Army 3							
Other Support Equipment							
		FY94	FY95	FY96	FY97	FY98	FY99
			155	148			
			2.7	2.7			
QUANTITY							
COST (IN MILLIONS)							

DESCRIPTION: The Forward Area Water Point Supply System (FAWPSS) supports the Army mission of providing potable water to soldiers in their fields of operation. As the name states, FAWPSS provides life sustaining water to the most forward area of operation; front line and remote units in tactical environments where larger water distribution systems would be impractical due to terrain or hostile fire considerations. It was designed to be used at the company level, but is also part of the Arid Augmentation Water Teams in divisions and below. The FAWPSS also supports the National Training Center, the Quartermaster School, the Southern Command (SOUTHCOM), combat support hospitals, and Operation Project Stocks (OPS). It consists of six 500 gallon water drums, a 125 gallons per minute (gpm) water pump, suction and discharge hose assemblies, valves, nozzles, and hose connecting hardware.

JUSTIFICATION: The FAWPSS programmed requirements are needed to improve the combat capabilities and increase operational readiness of the Army. The FY 96 program is required to replace losses due to field usage and long term storage as part of CONUS Depot Operational Projects and on Prepositioned Vessels. Due to the extensive use of coated fabrics, FAWPSS has a short shelf life and an even shorter in-use life.

UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
FWD AREA WTR POINT SUP SYSTEM										(M18100)	
WEAPON MODEL/SERIES/POPULAR NAME											
FAWPSS											
MANUFACTURER NAME											
PLANT CITY/STATE LOCATION											
SEE P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
FY 94										FY 95	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
FY 96										FY 97	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
Weapon System Cost Elements											
HARDWARE											
ENGINEERING											
DOCUMENTATION											
PRODUCT ASSURANCE											
TESTING											
TOTAL											
P-1 SHOPPING LIST											
UNCLASSIFIED											
PAGE 2 OF 5											
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE FWD AREA WTR POINT SUP SYSTEM										(M18100)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
FY92	LABARGE PRODUCTS ST. LOUIS, MO	C/FP-REQ-2(2)	TROSCOM	Mar 92	Mar 93	157	15,968	YES	NO				
FY95	TBS	C/FP-REQ-3(1)	ATCOM	Jun 95	Jun 96	155	17,408	YES	NO				
FY96	TBS	C/FP-REQ-3(2)	ATCOM	Jun 96	Dec 96	148	18,135	YES	NO				
REMARKS													
P1 SHOPPING LIST													
ITEM NO 134						PAGE NO 3 OF 5			UNCLASSIFIED		Page of Pages EXHIBIT P-5A		

UNCLASSIFIED										DATE February 1995									
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092										P-1 ITEM NOMENCLATURE FWD AREA WTR POINT SUP SYSTEM									
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										(M18100)									
UNCLASSIFIED										UNCLASSIFIED									
S E UMEA		ACCEP PRIOR TO 1 OCT		BAL DUE AS OF 1 OCT		FISCAL YEAR 94		FISCAL YEAR 95		FISCAL YEAR 96		CALENDAR YEAR 95		CALENDAR YEAR 96		CALENDAR YEAR 96			
F A C	V	F Y	QTY	1 OCT	1 OCT	1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	A	92	157	157															
2	A	95	155	155															
2	A	96	148	148															
TOTALS			157	303															
F A C		MANUFACTURERS NAME & LOCATION		1 LABARGE, ST. LOUIS, MO		2 TBS		REMARKS		FY96 program to be awarded June 96 after FY95 program's First Article Test is completed.		TOTAL AFTER 1 OCT		21		8			
P-1 SHOPPING LIST		ITEM NO 134		PAGE NO 4 OF 5		UNCLASSIFIED		EXHIBIT P-31		DD Form 2445, JUL 87		P-1 SHOPPING LIST		ITEM NO 134		PAGE NO 4 OF 5			

UNCLASSIFIED										DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE Small Mobile Water Chiller (SMWC)									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										(M15700)	
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
QUANTITY			185	387							
COST (IN MILLIONS)			1.9	4.0							
<p>DESCRIPTION: The Small Mobile Water Chiller (SMWC) is a self-contained, vapor-cycle, single pass water chiller. The main components consist of a diesel engine, compressor, condenser, heat exchanger (evaporator) and water pump. The components are skid mounted. The SMWC will cool 800 gallons of water from 120 degrees Fahrenheit to 60 degrees Fahrenheit in a 24 hour operation. Beginning with the FY 95 procurement, all SMWCs will utilize approved R - 134a refrigerant.</p> <p>JUSTIFICATION: The SMWC is part of the near term water supply equipment which is designed to provide cool fresh water to the U.S. Central Command (CENTCOM) in harsh and arid environments. Programmed requirements are needed to maintain the operational readiness of the U.S. Army forces and for the replacement of assets lost during Desert Storm, Somalia, and Rwanda, and will ensure the viability of the Army's water supply capabilities for the future.</p>											
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995							
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE SMALL MOBILE WATER CHILLER (SMWC)				(M15700)											
		MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE P-5A		WEAPON MODEL/SERIES/POPULAR NAME CHILLER													
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS															
IDENT CODE		FY 94		Quantity		FY 95		Quantity		FY 96		Quantity		FY 97		Quantity	
		UNIT COST		TOTAL COST		UNIT COST		TOTAL COST		UNIT COST		TOTAL COST		UNIT COST		TOTAL COST	
HARDWARE		A		10,200		185 1,887		387 3,947		10,199		387 3,947					
ENGINEERING						4		4				4					
DOCUMENTATION						1		1				1					
TESTING						1		1				1					
TOTAL				10,232		1,893		3,953		10,214		3,953					
P-1 SHOPPING LIST																	
ITEM NO 135 PAGE NO 2 OF 4																	
UNCLASSIFIED										Page of Pages		EXHIBIT P-5					

REPORTS CONTROL SYMBOL		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995			
DD-COMP(AR) 1092		APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE				(M15700)			
Other Procurement: Army 3		Small Mobile Water Chiller (SMWC)											
Other Support Equipment													
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
FY90	AIRTACS CORP RED LION, PA	C/FP	TROSCOM	Jan 91	Sep 91	248	6,700	YES	NO				
FY95	TBS	C/FP-REQ-5(1)	ATCOM	Sep 95	May 96	185	10,200	NO	YES	Mar 95			
FY96	TBS	C/FP-REQ-5(2)	ATCOM	Jun 96	Sep 96	387	10,199	NO	YES	Mar 95			
REMARKS													
FY95 projected increase in unit price and fourth quarter award are a result of extensive changes to the SMWC to satisfy pollution control requirements.													
P1 SHOPPING LIST						UNCLASSIFIED		Page of		Pages			
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[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ)		(ML5335)			
		FY94	FY95	FY96	FY97	FY98	FY99
QUANTITY							
COST (IN MILLIONS)		4.1	3.0	2.4	3.1	3.0	3.3
							5.6

DESCRIPTION: The equipment procured with these programs supports the Army mission of providing potable water to soldiers in their field of operations. They provide life sustaining water to the front line and remote units in tactical environments. In addition to consumption, this items support personal hygiene, emergency medical conditions, equipment maintenance, and nuclear, biological and chemical decontamination. They include a wide variety of low unit cost, high usage items such as water tanks, pumps, water purification, storage and distribution systems. Each have an annual procurement of under \$2 million.

JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets which result in high washouts and losses. New technology improves combat capability and the individual soldiers quality of life. The FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		DATE February 1995					
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT							
		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ)		(ML5335)					
		MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME					
Weapon System Cost Elements	IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
M115, PUMP UNIT, 350 GPM	A		7 12,500		40 500				
M120, TANK, FABRIC, 50,000 GAL	A		80 10,325		53 10,358		62 10,355		62 10,355
M124, TANK, FABRIC, 20,000 GAL	A		35 5,343		36 5,333		75 5,347		75 5,347
M128, DRUM, FABRIC, 500 GAL	A		100 2,450		189 2,450		401 2,449		401 2,450
M132, WATER STOR & DIST SYS, 40K	A		4 89,500		463 2,450		1,134		1,127
M141, TANK, FABRIC, 4570 GAL	A		95 6,147		95 6,147				78 551
M155, HYPOCHLORINATION UNIT	A		177 5,362		177 5,362				
M160, PUMP UNIT, 125 GPM	A		36 1,513		853 1,291		143 217		143 217
M660, TANK, FABRIC, 3,000 GAL	A		875		875				24 151
ENGINEERING SUPPORT			4,067		2,995		2,394		3,089
TOTAL									
P-1 SHOPPING LIST		PA 2 OF 5		UNCLASSIFIED		Page of Pages		E IT P-5	
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REPORTS CONTROL SYMBOL DD-COMP/(AR) 1092		UNCLASSIFIED		DATE February 1995	
ITEMS LESS THAN \$2 MILLION DOLLARS		P-1 ITEM NOMENCLATURE		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		DATE February 1995	
Other Procurement: Army 3		P-1 ITEM NOMENCLATURE		DATE February 1995	
Other Support Equipment		P-1 ITEM NOMENCLATURE		DATE February 1995	
ITEM NO		NOMENCLATURE		P-1 ITEM NOMENCLATURE	
1	M160, PUMP UNIT, 125 GPM	4,913	1,232	1,985	1,513
2	M115, PUMP UNIT, 350 GPM	122	82	120	12,500
3	M126, DRUM, FABRIC, 500 GAL	5,951	2,297	2,350	2,450
4	M120, TANK, FABRIC, 50,000 GAL	320	314	319	10,358
5	M124, TANK, FABRIC, 20,000 GAL	327	110	145	5,333
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.					
TOTAL				2,995	
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		ITEMS LESS THAN \$2 MILLION DOLLARS		DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ) FY 96		(ML5335)						
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M126, DRUM, FABRIC, 500 GAL	5,951	2,350	2,775	2,449	463	1,134	FP/REQ	C	Feb-96
2	M120, TANK, FABRIC, 50,000 GAL	320	319	314	10,355	62	642	FP/REQ	C	Jun-96
3	M124, TANK, FABRIC, 20,000 GAL	327	145	220	5,347	75	401	FP/REQ	C	Jun-96
4	M160, PUMP UNIT, 125 GPM	4,913	1,985	2,100	1,517	143	217	FP/REQ	C	Apr-96
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.										
TOTAL						2,394				
P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages		EXHIBIT				
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		CLASSIFIED		ITEMS LESS THAN \$ 2 MILLION DOLLARS		DATE February 1995				
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ) FY 97		(ML5335)						
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	M141, TANK, FABRIC, 4570 GAL	864	156	225	7,064	78	551	FP/REQ	C	Feb-97
2	M126, DRUM, FABRIC, 500 GAL	5,951	2,775	3,200	2,450	460	1,127	FP/REQ	C	Feb-97
3	M120, TANK, FABRIC, 50,000 GAL	320	314	315	10,355	62	642	FP/REQ	C	Mar-97
4	M124, TANK, FABRIC, 20,000 GAL	327	220	295	5,347	75	401	FP/REQ	C	Mar-97
5	M680, TANK, FABRIC, 3000 GAL	246	107	124	6,292	24	151	FP/REQ	C	Apr-97
6	M160, PUMP UNIT, 125 GPM	4,913	2,100	2,200	1,517	143	217	FP/REQ	C	Apr-97
NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically repairable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.										
TOTAL						3,089				
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BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY:		P-1 ITEM NOMENCLATURE:					DATE		
Other Procurement, Army 3		Combat Support Medical (MN1000)					February 1995		
Other Support Equipment									
QUANTITY		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
COST (In Millions)		\$20.8	\$19.2	\$14.3	\$16.5	\$16.6	\$18.4	\$28.8	\$28.8

DESCRIPTION:

The Combat Support Medical (MN1000) line funds hospital assemblage components for Deployable Medical Systems (DEPMEDS) and acquisition of major medical equipment items required to equip DEPMEDS hospitals and other field medical units such as battalion aid stations, medical clearing stations, dental units, etc.

Deployable Medical Systems (MX0003) provides funding for major nonmedical components of military field hospitals which have attributes of mobility, short setup time and efficiency. Hospital components are assembled with major medical equipment items procured by the Field Medical Equipment line. Field hospitals are available in a variety of Medical Force 2000 (MF2K) configurations such as the Combat Support Hospital (CSH), Mobile Army Surgical Hospital (MASH), Field and General Hospitals.

Field Medical Equipment (MB1100) funds acquisition of major medical equipment items required to equip DEPMEDS combat hospital units and other field medical units such as battalion aid stations, medical clearing stations, and dental units. In addition, this line provides medical equipment to active and reserve components which must be replaced due to fair wear and tear, obsolescence and nonserviceability.

JUSTIFICATION:

Funding for Deployable Medical Systems (MX00003) and Field Medical Equipment (MB1100) is essential to the Army's objective of enhancing medical readiness in support of the total Army force structure as directed by DoD and Congress. The equipment procured will provide a significant improvement in field medical support capability.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Title/No. Other Procurement, Army 3 (MN1000)		B. WEAPON MODEL Combat Support Medical (MN1000)		C. NA		D. DATE: February 1995	
Weapon System Cost Elements	IDEN CODE	FY94		FY95		FY96		FY97	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Deployable Medical Systems (MX0003)			\$6,193		\$11,088		\$7,441		\$7,716
Field Medical Equipment (MB1100)			\$14,558		\$8,121		\$6,869		\$8,768
TOTAL			\$20,751		\$19,209		\$14,310		\$16,484

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Exhibit P-5 Weapon System Cost Analysis

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET													
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX00003)											
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
		6.2	11.1	7.4	7.7	7.0	9.3	10.9	10.9				
QUANTITY													
COST (IN MILLIONS)													
<p>DESCRIPTION: The Deployable Medical System (DEPMEDS) is a military field support hospital, which has the attributes of mobility, short set-up time, and efficiency. Hospitals are to be available in four basic configurations in a variety of Medical Force 2000 (MF2K) applications, such as Mobile Army Surgical Hospitals, Combat Support Hospitals, and Field/General Hospitals.</p> <p>The complexes consists of one and two sided expandable tactical shelters, two and eight section Tent, Extendable, Modular, Personnel (TEMPER), and related power, water, and environmental control systems. The hospital configurations facilitate patient care and medical productivity while retaining full medical responsiveness to combat scenarios. Modular Field Kitchens have been integrated into this system to provide for the special dietary requirements of hospitals. This system has been standardized throughout the Department of Defense.</p> <p>JUSTIFICATION: Justification of specific elements supporting DEPMEDS is displayed on individual P-Form exhibits. Acquisition of equipment required for initial fieldings of original and modified unit configurations has been completed. Out year acquisitions support sustainment requirements and incremental enhancements to unit capabilities.</p>													
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REPORT'S CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS				WEAPON MODEL/SERIES/POPULAR NAME DEPMEDS				(MX0003)			
MANUFACTURER NAME PLANT CITY/STATE LOCATION		TOTAL COST IN THOUSANDS OF DOLLARS											
IDENT CODE		FY 94 UNIT COST		Quantity TOTAL COST		FY 95 UNIT COST		Quantity TOTAL COST		FY 97 UNIT COST		Quantity TOTAL COST	
M330 FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM (FMOGDS)		300		352,632		6,700		290,789		5,525		290,800	
No SSN WATER DISTRIBUTION AND WASTE WATER COLLECTION SYSTEM		5,893		4,388		10		151,080		10		1,511	
ITEMS LESS THAN \$2 MILLION						415						1,843	
TOTAL		6,193		11,088		7,441						7,716	

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BUDGET ITEM JUSTIFICATION SHEET						
REPORTS CONTROL SYMBOL DD-COMPIAR) 1092		P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) ITEMS LESS THAN \$2.0 M (MX00003)				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		FY 94	FY 95	FY 96	FY 97	
QUANTITY						
COST (IN MILLIONS)		5.9	4.4	0.4	1.8	
<p>DESCRIPTION: These items are nonmedical components of the Deployable Medical System which have an annual program cost of less than \$2.0 million. dollars, or components of end items being procured as initial, sustainment, or replacement issue.</p> <p>JUSTIFICATION: These acquisitions meet the direction of the Vice Chief of Staff of the Army direction on Chemical Biological Hardening, and mandates on maintaining a high level of medical care for field units. The goal of Chemically Hardening DEPMEDS is to provide Chemical Biological protection to selected components of a DEPMEDS equipped hospital. Patients and medical personnel must be unencumbered by chemical protective equipment to effectively treat casualties on the integrated battlefield. The CP DEPMEDS provides a clean, toxin free, environmentally controlled patient treatment area maximizing use of existing equipment.</p>						
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WEAPON SYSTEM COST ANALYSIS EXHIBIT									
REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		DATE February 1995							
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS ITEMS LESS THAN \$2 MILLION							
		MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME DEPMEDS (MX00003)					
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS							
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST	
No SSN CP DEPMEDS HUB Engineering	A	993		500					
No SSN Dolly Set Side Lift Kits	A		12,745	102					
No SSN TEMPER Liners (Initial Issue)	A	11,000		1,300					
M339 Air Conditioner 54000 BTU	A	1,700							249
M338 Power Distribution Panel	A	226							1,255
	A	1,100							
R453 DISE 40 Amp	A		6,020	49					
R454 DISE 100 Amp	A	313		295					
	A	5,112							
No SSN ISU 4 Door Container	A		6,004	212					
No SSN DISE Cable Set (1)	A		909	1,273					
No SSN DISE Cable Set (4)	A		949	22					
	A			20					
	A			527					
	A			500					
No SSN FST Shelters	A								22
No SSN Sample Data Collection	A								588
		500		500					
TOTAL		5,893		4,388					
P-1 SHOPPING LIST									
UNCLASSIFIED					Page of Pages				
EXHIBIT P-5									

UNCLASSIFIED										DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE											
FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM (M330000)											
										FY 00	
										FY 99	
										FY 98	
										FY 97	
										FY 96	
										FY 95	
										FY 94	
QUANTITY										19	
COST (IN MILLIONS)										5.5	
<p>DESCRIPTION: The Field Medical Oxygen Generation/Distribution System (FMOGDS) consists of two modules, the Oxygen Generation/Distribution Module (OGDM), and the Cylinder Filling Module (CFM). The OGDM contains the oxygen generation and storage equipment and the oxygen distribution network which links this with the hospital facilities. The CFM contains the high pressure oxygen compressor and cylinder filling station assemblies. Air is introduced into the OGDM, where it is filtered and compressed to about 30 pounds per square inch gage (psig). A two bed pressure swing absorption system separates oxygen from air to create a continuous stream (200 standard cubic feet per hour) of 93 percent pure oxygen. The first priority for use of oxygen is at hospital beds. The balance of produced oxygen not utilized in hospital is diverted to the CFM.</p> <p>JUSTIFICATION: Military conflicts and disaster relief activities result in the need for large quantities of medically pure oxygen. The availability of oxygen is a prime factor in saving lives of wounded personnel. Historically, oxygen has been provided by the use of oxygen cylinders, which present numerous logistical risks associated with transportation, refill and storage. Because of the valid need for large quantities of medical oxygen and the associated logistical burdens, significant advantages can be realized by utilizing on-site medical oxygen generating systems to enhance logistical, safety and cost considerations.</p>											
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EXHIBIT P-40											

UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM											
WEAPON MODEL/SERIES/POPULAR NAME										(M33000)	
MANUFACTURER NAME											
PLANT CITY/STATE LOCATION											
Guild, Inc. Columbus, OH											
TOTAL COST IN THOUSANDS OF DOLLARS											
FY 94										FY 95	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
FY 96										FY 97	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
Weapon System Cost Elements											
Engineering (Government)											
Hardware											
Data											
Testing											
TOTAL											
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UNCLASSIFIED											
REPORTS CONTROL SYMBOL DD-COM(ARI) 1092					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT					DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE Field Medical Oxygen Generating and Distribution System (FMOGDS)						(M33000)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 93	Guild, Inc. Columbus, OH	C/FPM-4(1)	USAMMDA	Sep 93	Sep 94	3	769,333	Yes	No		
FY 95	Guild, Inc. Columbus, OH	C/FPM-4(2)	USAMMDA	Jan 95	Sep 95	19	282,263	Yes	No		
FY 96	Guild, Inc. Columbus, OH	C/FPM-4(3)	USAMMDA	Jan 96	Sep 96	19	282,263	Yes	No		
FY 97	Guild, Inc. Columbus, OH	C/FPM-4(4)	USAMMDA	Jan 97	Sep 97	15	282,263	Yes	No		
REMARKS Unit cost for FY 93 contract quantities represent a low rate initial production (LRIP).											
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REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE February 1995											
DD-COMP(ARI) 1092										P-1 ITEM NOMENCLATURE										(M3300)											
APPROPRIATION /BUDGET ACTIVITY										Field Medical Oxygen Generating and Distribution System																					
Other Procurement: Army 3																															
Other Support Equipment																															
S		U/M EA		ACCEP PRIOR TO		BAL DUE AS OF		FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L			A			T			E			R		
F A C		FY QTY		1 OCT		1 OCT		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP			OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP			OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																	
1	A	95	19	3	16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
1	A	96	19		19																										
1	A	97	15		15																										
TOTALS				3	50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
F		MANUFACTURER'S NAME & LOCATION		1 Guild, Inc		Columbus, OH		MONTHS TO REACH MAX AFTER D DAY		MIN		1-8-5		MAX		ADMIN LEAD TIME		PRIORITY		TOTAL AFTER		REORDER		INITIAL		11		24		12	
A								5		1		3		15		PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
C																PRIORITY		TOTAL		REORDER		INITIAL		11		24		12			
1																PRIORITY		TOTAL		REORDER		INITIAL		11							

UNCLASSIFIED										DATE February 1995							
BUDGET ITEM JUSTIFICATION SHEET																	
P-1 ITEM NOMENCLATURE																	
Water Distribution/Waste Water Disposal System										(NO SSN)							
REPORTS CONTROL SYMBOL DD-COM(AR) 1092										FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment												10	10	10			
QUANTITY																	
COST (IN MILLIONS)												1.5	1.5	1.5			
<p>DESCRIPTION: This system distributes potable water throughout the DEPMEDS complex, and treats used/contaminated water to insure safe disposal. The system is composed of tanks, hoses, fittings, valves, nozzles, meters, gauges, and sinks that provide maximum flexibility in distributing water throughout the DEPMEDS complex.</p> <p>JUSTIFICATION: The system controls infection and the spread of communicable diseases within the hospital complex by providing a source of safe potable water for use in the treatment of patients, and a means of collecting and treating potentially dangerous used water.</p>																	
DD Form 2454, Jul 88										P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages			
ITEM NO 137										PAGE NO 12 OF 17		EXHIBIT P-40					

UNCLASSIFIED						DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT							
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE Water Distribution/Waste Water Disposal System					
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME WD/WWDS (No SSN)			
		TOTAL COST IN THOUSANDS OF DOLLARS					
		FY 94		FY 95		FY 96	
		UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST	UNIT COST	Quantity TOTAL COST
Weapon System Cost Elements							
Engineering (Government)							
Hardware							
Data							
TOTAL							

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P-1 SHOPPING LIST
 ITEM NO 137 PAGE NO 13 OF 17

REPORTS CONTROL SYMBOL DD-COMPIARJ 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Water Distribution/Waste Water Disposal System									
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	(No SSN)
FY 96	TBS	OTHER	ATCOM	May 96	Dec 96	10	141,500	No	Yes	Apr 95	
FY 97	TBS	OTHER	ATCOM	Jan 97	May 97	10	142,900	No	Yes	Apr 95	
REMARKS: Depot Fabrication Program, no First Article Test. Unit cost changes cover anticipated equipment refinements experienced during the production cycle.											
P1 SHOPPING LIST						UNCLASSIFIED		Page of		Pages	
ITEM NO 137						PAGE NO 14 OF 17				EXHIBIT P-5A	

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 3-Other Support Equipment						DATE February 1995	
P-1 ITEM NOMENCLATURE: Field Medical Equipment (MB1100)							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							
COST (In Millions)	\$14.6	\$8.1	\$6.9	\$8.8	\$9.6	\$9.1	\$17.9

DESCRIPTION:

Deployable Medical Systems (DEPMEDS) equipped hospitals are comprised on DoD standardized medical modules (e.g., Operating Room, Central Materiel Service, Intensive Care Unit, Triage/Emergency Treatment, Laboratory, X-Ray, etc.). This budget line specifically funds the major medical equipment items in the functional medical modules. For example: the surgical table and anesthesia apparatus in the operating room; the sterilizers in the central materiel service; the ventilator and defibrillator-monitor in the ICU and triage-emergency treatment; the diagnostic equipment in the laboratory; and the high capacity x-ray units in the x-ray module.

This line funds major medical equipment items for the Army combat hospital force structure. This funding line also buys major medical equipment required in other field medical units. Examples include defibrillator-monitors, low capacity x-ray units, and sterilizers in medical clearing stations and dental x-ray units and sterilizers in field dental units.

Equipment funding includes OPA procured developmental items that have transitioned from RDT&E advanced development. Examples of developmental items include systems for field CTs, ultrasound imaging, and steam vacuum pulse sterilizers.

JUSTIFICATION:

DEPMEDS equipped hospital sets, with the necessary medical equipment that will correct the "warstopper" problem of having insufficient and inadequate medical equipment. This medical equipment enhances the medical readiness position of the field units allowing them to perform their wartime missions.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapon System Cost Elements	A. Appropriation/Budget Activity Title/No. Other Procurement, Army 3 (MB1100)		B. WEAPON MODEL Field Medical Equipment (MB1100)				C. NA	D. DATE: February 1995	
	IDEN CODE	FY94	FY95		FY96		FY97		
		QTY	TOTAL COST	QTY	TOTAL COST	QTY		TOTAL COST	
Sustainment/Modernization of previously procured DEPMEDS equipped hospital sets:									
Defibrillator									
Liquid Oxygen (LOX) Associated Items of Equipment			270	\$9,100	157	\$1,459			\$4,887
Computerized Tomography (CT) Scanners			5	2,500 1,545 3,500 1,555		1,459			
Augmentation Team Equipment (Multiple)									
Initial sustainment/rqmts contracts									4,887
for Equipment Readiness Code (ERC) A medical items for quick replacement & delivery: (i.e., electro surgical apparatus, pulse oximeter, blood refrigerator, operating table, dental x-ray, high and low capacity x-rays, portable ventilator, centrifugal analyzer, anesthesia apparatus, sodium potassium analyzer, blood recovery unit, centrifuge lab, ultrasonic cleaner, solution warming cabinet, chair and stool unit, operatory dental, ECG monitor, x-ray processing machine, sink unit)									
Sustainment/Modernization of Major Medical Equipment for nonhospital fld units:									
Dental Operatory			285	\$1,500		\$1,045		\$1,054	\$1,054
Refrigerators, blood			54	1,140 360					
Debrillator					58	541 504	59	550 504	550 504
Dental X-Ray									
Production funding of advanced developed medical equipment:									
Sterilizer			12	\$3,958		\$5,617		\$2,569	\$2,827
LOX (Pieces; i.e., plant, storage & distribution)				1,000			15	1,135	2,827
Ultrasound				1,258		1,500	6	434	
Telemedicine				1,700		987			
Dental X-Ray									
Army Medical Lab Equipment								1,000	
Medical Compressor System									
Ventilator					18	630 2,500			
TOTAL				\$14,558		\$8,121		\$6,869	\$8,768

P-1 SHOPPING LIST

ITEM NO. 137 Page No. 17 of 17

Exhibit P-5 Weapon System Cost Analysis

Reports Control
Symbol DD-COMP (AR)

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

Appropriation/Budget Activity
Other Procurement, Army/Activity 3
Other Support Equipment

P-1 Item Nomenclature

Shop Eq Contact Maintenance Trk Mtd (M61500)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		118	71	66	59			
COST (MILLIONS)	\$	\$ 2.8	\$ 1.8	\$ 1.8	\$ 1.7	\$	\$	\$

DESCRIPTION: The Shop Equipment, Contact Maintenance Vehicle (CMV), Truck Mounted, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) Heavy Variant (HHV) (1097) is for general use and will provide improved cross-country mobile maintenance support to maneuver elements. The current CMVs, the gasoline-engine M887 Dodge Truck and Commercial Utility Cargo Vehicle (CUCV) CMV, are unable to traverse the terrain or maintain sufficient cross-country speed to keep up with support equipment while carrying tools and repair parts. The CMV will deploy to the site of disabled equipment to make repairs of all weapons systems and military equipment. The CMV will operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Collection Point (UMCP). The CMV will operate as far forward as behind the first terrain feature to the rear of the Forward Line of Own Troops (FLOT). Contact Maintenance teams using the CMV will perform repairs to equipment on-site in hours of daylight and darkness.

JUSTIFICATION: Readiness posture is being affected by the shortage of Contact Maintenance Shops to fill unit requirements throughout the Army. The Shop Equipment, Contact Maintenance is employed at the intermediate levels of maintenance to provide the capability of performing on-site repairs to disabled equipment. Non-availability of these shops degrades unit mission capability. The need to replace uneconomically repairable, overaged shops (1500) mounted on the M880 series truck chassis for which spare and repair parts are no longer available, continues to exist. In addition, the 1986 CUCV version CMV will not be supported after 1997. This is in line with the "Purefleeting" concept for Light Maintenance Vehicle. Future procurement of the CMV will be mounted on the HMMWV chassis. This will assist in purifying the vehicular fleet and reduce shortage requirements of spare/repair parts and fuel. The FY 96 and FY 97 CMV programs will permit the Army to continue to support the highest priority Force Package 1 units in their tactical maintenance mission. This version also adds to the overall ability of the system to transverse over all types of terrain. The FY 96-97 programs are to support an AAO of approximately 2,000.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Other Procurement, Army/Activity 3 Other Support Equipment		B. Weapon Model/Series Shop Eq Contact Maint Trk Mtd (M61500)		C. Manufacturer/Location TBS		D. Date February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost
1. Hardware	B			32100	79 2,536	32729	49 1,604	33711	46 1,551
2. Engineering Support					246		145		173
3. Quality Assurance					25		24		25
4. Documentation					5		5		5
TOTAL					2,812		1,778		1,754
Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994. Cost data was analyzed in January 1995. Although savings were realized in combining tool sets, labor and material costs were substantially higher than the estimates used to develop the unit costs on previous P-form submissions.									

BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)

DATE: February 1995

Appropriation/Budget Activity Procurement Other Procurement, Army/Activity 3, Other Support Equipment					P-1 Item Nomenclature Shop Eq Contact Maintenance Trk Mtd (M61500)					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WHEN AVAIL
Hardware FY95 FY96 FY97	TBS TBS TBS	C/FP C/FP C/FP	ACALA ACALA ACALA	May 95 Jan 96 Nov 96	May 96 Feb 97 Sep 97	79 49 46	32,100 32,729 33,711	No Yes Yes	Yes No No	Feb 95

REMARKS:

Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994. Cost data was analyzed in January 1995. Although savings were realized in combining tool sets, labor and material costs were substantially higher than the estimates used to develop the unit costs on previous P-form submissions.

CODE "B" ITEM DESCRIPTION		DATE: February 1995	REPORT CONTROL SYMBOL DD-COMP(AR) 1092
APPROPRIATION Other Procurement, Army		P-1 ITEM NOMENCLATURE Shop Eq, Contact Maintenance Trk Mtd (M61500)	
1. CURRENT DEVELOPMENT AND TEST STATUS			
a. DEV TEST & EVAL (DT&E) b. INITIAL OPER TEST & EVAL (IOT&E) c. OPER TEST & EVAL (OT&E) d. AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		SCHEDULE DATE CURRENT (1) LAST REPORTED (2) REASON FOR DELAY (3)	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE APR 95 3. EQUIPMENT ITEM(S) TO BE REPLACED Shop Eq Contact Maintenance Trk Mtd, Commercial Utility Cargo Vehicle (CUCV)			
4. EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED The Shop Eq, CM, HMMWV, is state-of-art maintenance equipment which is lighter and has increased mobility.			
5. DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR (1)	PLANT LOCATION (2)	COMPONENT (3)	Through FY94 (4)
			FY95 (5)
			FY96 (6)
			FY97 (7)
			BEYOND BY: (8)
Rock Island Arsenal	Rock Island, IL		1.0
TOTAL RDT&E FUNDING			1.0
6. REMARKS			
Current Development and Test Status: DT&E, IOT&E, and OT&E are not applicable to this item. This is a non-developmental item.			

APPROPRIATION/BUDGET ACTIVITY

Other Procurement, Army/Activity 3

Shop Eq Contact Maintenance Trk Mtd (M81600)

DATE: February 1995

REQUIREMENT	CONTROL SYMBOL

[illegible]

FACILITY NO	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY
		MINIMUM SUET	1-8-5 MAXIMUM	
1	TBS	10	25	6

PRODUCTION LEAD TIME				
	ADMIN LEAD TIME		PRODUCTION	TOTAL AFTER 1 OCT
	PRIOR 1 OCT	AFTER 1 OCT		
INITIAL	10	3	12	15
REORDER	10	1	11	12

REMARKS

Heavy HMMWV chassis will be furnished by TACOM.

Reports Control
Symbol DD-COMP (AR)

BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

Appropriation/Budget Activity Procurement
Other Procurement, Army/Activity 3
Other Support Equipment

P-1 Item Nomenclature
Items Less Than \$2.0M (Maint Equip) (ML5345)

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)	\$ 7.0	\$ 1.1	\$ 1.5	\$ 1.4	\$ 1.2	\$ 1.7	\$ 6.0	\$ 7.0

DESCRIPTION: Provides for procurement of major shop equipment, shop sets, weapons support items, and explosive ordnance disposal (EOD) equipment. Major shop equipment shop sets have multi-applications for Army maintenance organizations tasked with maintaining and repairing combat and tactical weapon systems. This equipment is for initial issue shortages or to replace overaged and uneconomically repairable assets. EOD equipment is used by EOD personnel to render safe unexploded ordnance and improvised devices throughout the world. This equipment provides the capability to examine, identify, and render safe ordnance effectively and safely.

JUSTIFICATION: Required to procure tool sets and shop equipment to support current and increasing requirements of maintenance and weapons support units. These requirements include interchange, readiness fixing, and replacement of uneconomically repairable/unsupportable assets. The EOD equipment is urgently needed to fill unit requirements throughout the active Army, National Guard, and Army Reserve Units for rendering safe unexploded ordnance and improvised explosive devices. The EOD equipment will increase operational capabilities of EOD units as well as enhance safety of EOD personnel.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Other Procurement, Army/Act 3 Other Support Equipment		B. Weapon Model/Series Items Less Than \$2.0M (Maint Equip) (ML5345)		C. Manufacturer/Location Various		D. Date February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost
1. Andros MK5 (RCT) E788	A	76980	19 1,463						
2. Shop Set, EOD E789	A	1035	86 89						
3. Demolition Equip F001 Set, Expl Elec & Non Elec	A	1746	232 405	1769	39 69	1822	10 18	1877	10 19
4. Torch Outfit, F065 Cutting & Welding Org Maint, Set 5	A	1063	32 34			786	4 3	809	90 73
5. Shop Set, Spare F079 Part Storage Field Maint, Set 1	A	5783	166 960	3871	62 240	3987	94 375	4107	100 411
6. Shop Set, Spare F080 Part Storage Field Maint, Set 2	A	4322	214 925						
7. MX22 Remote G008 Firing Device	A	15991	109 1,743				42 720	17658	39 689
8. Shop Equip, Canvas G311 Glass Shop, Shelter MTD	A	31000	1 31			77484	2 155	79808	2 160
9. Shop Set, Welding G341 Field Maint, PCS, Set 8	A	12000	4 48	10989	2 22				

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity Other Procurement, Army/Act 3 Other Support Equipment		B. Weapon Model/Series Items Less Than \$2.0M (Maint Equip) (ML5345)		C. Manufacturer/Location Various		D. Date February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94 Unit Cost	Qty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	Qty Total Cost
10. Tool Set, Air Assault Engineer Squad G395	A	1528	11						
11. Service Kit, Power Plant Operator, 06HF G651	A	255900	256	157579	158				
12. Shop Equip, Radiator Test & Rpr G715	A	12400	2			11930	15		
13. Tool Kit, Suppl Fld Maint (EOD) G784	A		25				179	5828	6
14. Shop Equip, Small Equip Rpr Shelter G338	A	22133	3						35
15. Brake Machine (PEND)	A		66	10500	84				
16. Lathe, Brake Drum S051	A	4687	150	6919	37			6340	1
17. Lathe, Engine S053	A		703		256				6
18. Cleaner, Steam Press S600	A	253000	1	9000	35				
TOTAL			7,018		1,144		1,450		1,393

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092	ITEMS LESS THAN \$2 MILLION DOLLARS					DATE: February 1995			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment	P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip)					(ML5345)			
FY 95 BUDGET/APPORTIONMENT NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BY FDP BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8346	8380	1769	39	69	FFP	RIA	JAN 95
2. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3190	3237	3871	62	240	FFP	RIA	JAN 95
3. Shop Set, Welding, Field Maint PCS Set 8 G341	42	31	33	10989	2	22	FFP	RIA	JAN 95
4. Service Kit, Power Plant Operator, 06HF G651	4	2	3	157579	1	158	FFP	RIA	JAN 95
5. Brake Machine (PEND)	60	39	46	10500	8	84	FFP	C	MAR 95
6. Lathe, Brake Drum S051	695	657	694	6919	37	256	FFP	C	MAR 95
7. Lathe, Engine S053	590	552	582	9000	35	315	FFP	C	MAR 95
TOTAL						1,144			

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS THAN \$2 MILLION DOLLARS					DATE: February 1995			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip)					(ML5345)			
FY 96 BUDGET/APPORTIONMENT NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8380	8385	1822	10	18	FFP	RIA	JAN 96	
2. Shop Equip, Canvas & Glass Shop, Shelter MTD G311	146	132	134	77484	2	155	FFP	RIA	JAN 96	
3. Torch Outfit, Cutting & Welding, Org Maint, Set 5 F065	512	304	308	786	4	3	FFP	RIA	JAN 96	
4. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3237	3316	3987	94	375	FFP	RIA	JAN 96	
5. MX22 Remote Firing Device G008	350	230	262	17143	42	720	FFP	C	MAR 96	
6. Shop Equip, Radiator Test & Repair, FM G715	146	93	108	11930	15	179	FFP	RIA	JAN 96	
TOTAL						1,450				

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092	ITEMS LESS THAN \$2 MILLION DOLLARS					DATE: February 1995			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip) (ML5345)							
FY 97 BUDGET/APPORTIONMENT NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BY FDP BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8385	8390	1877	10	19	FFP	RIA	JAN 97
2. Shop Equip, Canvas Glass Shop, Shelter MTD G311	146	134	136	79808	2	160	FFP	RIA	JAN 97
3. Torch Outfit, Cutting & Weldin Org Maint, Set 5 F065	512	308	398	809	90	73	FFP	RIA	JAN 97
4. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3316	3401	4107	100	411	FFP	RIA	JAN 97
5. MX22 Remote Firing Device G008	350	262	291	17658	39	689	FFP	C	MAR 97
6. Tool Kit, Supplemental Field Maint (EOD) G784	339	294	299	5828	6	35	FFP	RIA	JAN 97
7. Lathe, Brake Drum S051	695	694	695	6340	1	6	FFP	C	MAR 97
TOTAL						1,393			

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200)							(R03200)	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY	109									
COST (IN MILLIONS)	13.4									
DESCRIPTION: The compactor is a commercial item consisting essentially of articulated, centerpoint steering, diesel engine, a hydraulically controlled strike-off/dozer blade, and tamping feet or segmented impact pads on all wheels or drums.										
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY		31	47						
COST(IN MILLIONS)		5.8	7.1						
<p>DESCRIPTION: The Vibratory Self Propelled Roller is a commercial Non-Developmental item (NDI) construction equipment roller with the capability of exchanging smooth vibratory and tamping foot compacting functions within a single base self-propelled unit. This will be accomplished by changing the complete drum system, or by applying bolt-on padfoot segments to the existing smooth drum. Roller will be capable of all modes of transportation to include airdrop and helicopter transport for airborne/air mobile units.</p> <p>JUSTIFICATION: The FY 96 buy of 47 vehicles will replace old and outdated equipment and will reduce operating and sustainment (O & S) costs. Current inventory of compaction equipment ranges in age from 15 to 30 years and lacks logistics support due to old age.</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 142 PAGE NO 1 OF 4			UNCLASSIFIED		EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME ROLLER, VIBRATORY SELF-PROPELLED (R03300)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995				
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY94	QTY		FY 95	QTY		FY 96	QTY		FY 97	QTY
			UNIT COST	TOTAL COST		UNIT COST	TOTAL COST		UNIT COST	TOTAL COST		
HARDWARE	A				129			133				
LOGISTIC SUPPORT												
TESTING												
ENGINEERING SUPPORT												
SPECIAL TOOLS												
CONTRACTOR SUPPORT												
ECO												
TOTAL PROGRAM COST												
DD Form 2446, JUN 86				P-1 SHOPPING LIST				EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS				
ITEM NO 142				PAGE NO 2 OF 4								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support EquipmentP-1 ITEM NOMENCLATURE
ROLLER, VIBRATORY, SELF-PROPELLED (R03300)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY95	TO BE SELECTED	C/FP	TACOM	JUN 95	SEP 96	31	129,000	YES	NO	
FY96	TO BE SELECTED	C/FP	TACOM	FEB 96	DEC 96	47	133,298	YES	NO	

REMARKS

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P-1 SHOPPING LIST

ITEM NO 142 PAGE NO 3 OF 4

EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER		(M06105)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 01
QUANTITY			18	15			
COST(IN MILLIONS)			9.9	8.0			
<p>DESCRIPTION: The Deployable Universal Combat Earth Mover (DEUCE) is a high-speed, high mobility, earth moving system capable of conducting: clearing, leveling, and excavating operations in support of mobility, countermobility, survivability, and sustainment of engineering missions.</p> <p>JUSTIFICATION: The DEUCE will increase war fighting capabilities of light engineer units to support light divisions. Engineers as part of the combined arms team need a lightweight earth moving capability that does not require a prime mover and trailer for operational and tactical movement in the battlefield and is strategically deployable by air. The DEUCE must travel rapidly between job sites, travel across on paved airfields and highways without damaging the surfaces, and be capable of low velocity air drop and roll-on/roll-off from C-130 and C-141 aircraft.</p>							
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 143 PAGE NO 1 OF 5		UNCLASSIFIED		EXHIBIT P-40	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER (M06105)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995		
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94		FY 95		FY 96		FY 97		
		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
HARDWARE LOGISTIC SUPPORT CONTRACTOR ASSISTANCE SPECIAL TOOLS CAMOUFLAGE PATTERN REFURBISHMENT TESTING GOVERNMENT ENGINEERING ENGINEERING CHANGE ORDERS TOTAL PROGRAM COST PROGRAM UNIT COST	B					488	8781 423 30 20 12 452 159 61	503	7552 17 50 395 8014 534	
DD Form 2446, JUN 86 <div style="float: right;"> P-1 SHOPPING LIST ITEM NO 143 PAGE NO 2 OF 5 EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS </div>										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support EquipmentP-1 ITEM NOMENCLATURE
DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER (HD6105)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	CFPW/OPTION	TACOM	JUN 96	FEB 97	18	487,833	NO	YES	Feb 96
FY 97	TO BE SELECTED	CFPW/OPTION	TACOM	FEB 97	NOV 97	15	503,467			

REMARKS

FY96 AND FY97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN FY95 WHICH IS A COMPETITIVE FFP TYPE CONTRACT.

P-1 SHOPPING LIST

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ITEM NO 143 PAGE NO 3 OF 5

EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

CODE "B" ITEM DESCRIPTION		DATE February 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Deployable Universal Combat Earthmover		
CURRENT DEVELOPMENT AND TEST STATUS		(M06105)		
		SCHEDULE DATE		
		CURRENT	LAST REPORTED	REASON FOR DELAY
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		Jul 95 Nov 95		
ESTIMATED DATE OF APPROVAL FOR SERVICE USE 2nd qtr 96				
EQUIPMENT ITEM(S) TO BE REPLACED D58, Tractor, Full-Track, Low-Speed, Diesel-Engine-Driven				
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Improved Transportability and Mobility: Increased Speed to 30 mph (From 7 mph)				
DEVELOPMENT CONTRACT INFORMATION				
RDT&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR 94	CY 95
			1.408	1.407
				0.400
				0.0
TOTAL RDT&E FUNDING			1.408	1.407
REMARKS MS I/11 approved on May 94: Contract Solicitation efforts on-going: Contract Award Scheduled for 2nd QTR FY 95.				0.0
DD Form 2443, JUL 88		P-1 SHOPPING LIST		EXHIBIT P-19
ITEM NO 143		PAGE NO 4 OF 5		

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (ATEC)					(X00800)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY			7	7	8	19	5			
COST (IN MILLIONS)			2.0	2.0	2.5	5.6	1.5			
<p>DESCRIPTION: This is a commercial all terrain crane, pneumatic tired, diesel engine driven, with fully revolving superstructure and cab, and hydraulically powered telescoping boom. It shall be capable of operating with a hydraulic clamshell, grapple, pike driver and concrete bucket. It will be used to perform lifting, lowering, loading, and excavation; handling general supplies, construction materials and bridging; to support maintenance, collection and classification points, rehabilitation of maintenance routes of communication, resupply points and logistic support facilities.</p> <p>JUSTIFICATION: The ALL Terrain Crane (ATC) will replace overage 20 and 25 ton cranes (rough terrain and truck mounted) in the Army inventory. The cranes are 15-28 years old. Procurement of the ATC will provide improved readiness, state-of-the-art technology and safety, and be used for peacetime disaster relief applications. The FY 96/97 funds will begin fielding of the ATC.</p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED		EXHIBIT P-40		
		ITEM NO 144 PAGE NO 1 OF 5								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995		
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97	
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
HARDWARE		A					218	1523	225	1572
LOGISTICS SUPPORT								115		
CONTRACTOR ASSISTANCE								4		22
SPECIAL TOOLS								100		4
TESTING								240		275
GOVERNMENT ENGR								5		114
ECO										
TOTAL PROGRAM COST								1987		1987

DD Form 2446, JUN 86

P-1 SHOPPING LIST

EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS

ITEM NO 144

PAGE NO 2 OF 5

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 96	TO BE SELECTED	C/FP-REQ 5 (2)	TACOM	JUN 96	FEB 97	7	217,572	YES	NO		
FY 97	TO BE SELECTED	C/FP-REQ 5 (3)	TACOM	JAN 97	AUG 97	7	224,571				
REMARKS											
FIRST YEAR CONTRACT AWARD PROCURED WITH ARMY RESERVE DEDICATED PROCUREMENT FUNDS.											
DD Form 2446-1, JUL 87					P-1 SHOPPING LIST ITEM NO 144 PAGE NO 3 OF 5			EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING			

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092										PRODUCTION SCHEDULE										DATE February 1995																								
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY OTHER SUPPORT EQUIPMENT										P-1 ITEM NOMENCLATURE CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (ATEC)										(X00800)																								
FACILITY NO		S U E R M		PROGRAM QUANTITY						ACCEPT PRIOR TO 1 OCT		BAL DUE AS OF 1 OCT		FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			L A T E R												
				FY 94	FY 95	FY 96	FY 97	FY 98	FY 99					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1	EA	AR					7					25		6	6	7																												
1	EA	A									7																																	
1	EA	A									7																																	
TOTAL MONTHLY PRODUCTION													66	6	6	7	7																											
FACILITY NO		MANUFACTURERS NAME & LOCATION		MINIMUM		1-8-5		MAXIMUM		MONTHS TO REACH MAX AFTER 0 DAY		ADMIN LEAD TIME		PRIOR 1 OCT		AFTER 1 OCT		MANUFACTURING TIME		TOTAL AFTER 1 OCT		REMARKS																						
1	TO BE SELECTED			1	25	40	6																																					
A		DD Form 2445, JUL 87		P-1 SHOPPING LIST										ITEM NO 144 PAGE NO 5 OF 5										EXHIBIT P-21																				

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED							DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET										
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (CONST EQ)							(ML5350)	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST(IN MILLIONS)	4.0	3.4	2.0	.4	.9	2.9	5.1	.9		
<p>DESCRIPTION: This program covers various types of Construction Equipment (CE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).</p> <p>JUSTIFICATION: This equipment is required so that combat engineering units will be able to build and maintain roads and facilities to support the tactical mission (i.e. Tank Defilade). Construction equipment is required to support tactical wheeled vehicles and combat equipment in the forward deployment zone by constructing maintenance, storage facilities, and roads. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure three different Commercial Construction Equipment (CCE) items (R035 - Steel Wheel Roller, X512 - Drum winch, and R071 - Nuclear Tester). These systems are priority acquisitions identified by the U.S. Army Engineer School (USAES) to replace outmoded, overage equipment that is critically needed for Combat Engineer Units. They will be utilized by these TOE units for road building, port construction, and paving applications. The Nuclear Tester will be utilized by Engineer Construction units to measure the density and moisture levels in soil and asphalt samples.</p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 145 PAGE NO 1 OF 4				UNCLASSIFIED		EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (CONST EQ) (ML5350)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION		D. DATE MONTH/YEAR February 1995	
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS						
			FY 94		FY 95		FY 96		FY 97
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST
(X512) (M066) (M087) (R035) (R048) - WINCH, DRUM 40 T CRANE HOT OIL HEATER ROLLER, STEEL WH SMALL EMPLACE EXC AUGER ATTACHMENTS TAMPER, PISTON NUCLEAR TESTER MELTER, ASPHALT COMPRESSOR ROLLER, TOWED	A A A A B A A A A A	(13) (13) (317)	309 1540 1254	(3) (1) (25)	1295 25 1672	(21) (17) (123)	194 1200 587	(82) (82)	397
			3954	3372	1981	397			

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		ITEMS LESS THAN \$2 MILLION DOLLARS					DATE February 1995			
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0 M (CONST EQ) FY 96					(ML5350)			
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	WINCH, DRUM (X512)	63	37	52	9238	21	194	FFP	CP	DEC 95
2	NUCLEAR TESTER (R071)	205	0	123	4772	123	587	FFP	CP	DEC 95
3	ROLLER, STEEL WH (R035)	128	128	128	70588	17	1200	FFP	OPTION	DEC 95
TOTAL										
P-1 SHOPPING LIST							EXHIBIT P-5a			
ITEM NO 145 PAGE NO 3 OF 4										

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		ITEMS LESS THAN \$2 MILLION DOLLARS						DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0 M (CONST EQ)								
		FY 97 (ML5350)								
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	NUCLEAR TESTER (R071)	205	123	205	4841	82	397	FFP	OPTION	DEC 96
TOTAL										
P-1 SHOPPING LIST						EXHIBIT P-5a				
ITEM NO 145						PAGE NO 4 OF 4				

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE PUSHER TUG, SMALL (M44500)						
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 01
QUANTITY				1	2	2		
COST (IN MILLIONS)				3.6	7.2	7.2		

DESCRIPTION: The Pusher Tug will be a steel hull craft approximately 61 feet in length with a maximum draft of 4 feet when fully loaded. It will be capable of operating in Sea State 3. This tug will be capable of reaching a minimum of 10 knots sustained speed when fully loaded, no tow in Sea State 2. It will have twin propulsors with twin diesel inboard drive, pilot house controls, five berths, dinette with seating for four and two diesel engine driven generators. The mission of this tug is to provide towing of Lighter Aboard Ships (LASH) and general barges in harbors, inland waterways, and along shorelines. It will also assist larger tugs in the performance of heavier utility work.

JUSTIFICATION: The procurement of 5 Pusher Tugs will fulfill approximately 75 percent of the Army's requirement as identified in the Army Watercraft Master Plan. There is a total requirement for 7 tugs. The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics Over The Shore. To meet this requirement, the Army needs a capability to move non-powered craft, to include LASH barges, dry and liquid barges, floating cranes, causeway sections, and lighters of all types. The barges and lighters would be moved from vessels anchored offshore into a harbor, form point to point within a harbor, or from a seaport or anchorage to an inland water port for further trans-shipment operations. The current tugboat, the Small Tug, Design 3004, is aged beyond economic maintainability. Furthermore, it is not optimal for us in pushing LASH and other barges used in cargo movement. Acquiring a dependable capability is a critical issue in the Army and has a high priority.

UNCLASSIFIED										DATE February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE											
PUSHER TUG, SMALL (M44500)											
WEAPON MODEL/SERIES/POPULAR NAME											
MANUFACTURER NAME PLANT CITY/STATE LOCATION											
See P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
FY 94										FY 96	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
FY 95										FY 97	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
ITEM HARDWARE										2	
PROVISIONING										6,100	
GOVERNMENT ENGINEERING										752	
ENGINEERING CHANGES										175	
TESTING										125	
TOTAL										7,152	

REPORTS CONTROL SYMBOL
 DD-COMP(AR) 1092
 APPROPRIATION /BUDGET ACTIVITY
 Other Procurement: Army 3
 Other Support Equipment

UNCLASSIFIED
 WEAPON SYSTEM COST ANALYSIS EXHIBIT
 P-1 ITEM NOMENCLATURE
 PUSHER TUG, SMALL (M44500)
 WEAPON MODEL/SERIES/POPULAR NAME
 MANUFACTURER NAME
 PLANT CITY/STATE LOCATION
 See P-5A
 TOTAL COST IN THOUSANDS OF DOLLARS
 FY 94
 UNIT COST
 Quantity
 TOTAL COST
 FY 95
 UNIT COST
 Quantity
 TOTAL COST
 FY 96
 UNIT COST
 Quantity
 TOTAL COST
 FY 97
 UNIT COST
 Quantity
 TOTAL COST

DATE February 1995

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 EXHIBIT P-5

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PRODUCTION SCHEDULE

DATE February 1995

PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

PUSHER TUG, SMALL

(M44500)

S E R V I C E		ACCEP PRIOR TO AS OF		BAL DUE	FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			L A T E R																									
U M E A					CY 95			CALENDAR YEAR 96			CALENDAR YEAR 97			CALENDAR YEAR 98																									
F Y	QTY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	A	96	1																																				
		97	2																																				
TOTALS																																							
MANUFACTURERS NAME & LOCATION		PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY			ADMIN LEAD TIME			MANUFACTURING TIME			TOTAL AFTER 1 OCT			REMARKS																						
		MIN	* 1-8-5	MAX				PRIOR 1 OCT			AFTER 1 OCT																												
TBS		1	4	8	6			3			6			INITIAL			20																						
								4			8			REORDER			12																						

P-1 SHOPPING LIST

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3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
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90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

EXHIBIT 17

CLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE FLOATING CRANE, 100 - 250 Ton (M32400)	
	FY 94	FY 95	FY 96	FY 97	FY 98
				1	1
				14.9	14.9
QUANTITY					
COST (IN MILLIONS)					
					FY 01

DESCRIPTION: The Barge Derrick (BD) will be constructed of steel and capable of off-loading existing and projected shipping through the year 2020. The BD must be transportable on Float On/Float Off (FLO/FLO) ships, have onboard self-propulsion, self-maneuvering, self-positioning capability; be capable of a minimum service speed of 4-8 knots; have living accommodations (berthing, cooking, sanitary) for 15 persons; and , have heating ventilation and air conditioning. The BD must operate on diesel and/or Jet Propellant - 8 (JP-8) fuel for 30 days without refueling. It must be operational during night operations and while soldiers are dressed in Mission Oriented Protective Posture IV (MOPP IV) clothing.

JUSTIFICATION: The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics Over The Shore (LOTS). To meet this mission, a sub-requirement is to load and discharge heavy cargo from ships and other vessels. The Barge Derrick 264B currently is used for this mission albeit it is aged beyond economical maintainability. It is approximately 40 years old. Furthermore, it was designed for unloading ships designed and built during the mid 1900's and is therefore unable to achieve the reach required by current ship designs. (i.e. Current designs are wider, longer and taller.) Procurement of the new BD is critical for the Army in support of the LOTS mission. A procurement of 3 BD's will fulfill 50 percent of the Army's requirement as identified in the Army Watercraft Master Plan (AWMP).

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE February 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE FLOATING CRANE, 100-250 TON								
		MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME (M32400)						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS								
ITEM HARDWARE PROVISIONING GOVERNMENT ENGINEERING ENGINEERING CHANGES TESTING		IDENT CODE A	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
									13,875,000	1
										13,875
										500
										300
										150
										75
TOTAL									14,900,000	14,900
		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		
		ITEM NO 147				PAGE NO 2 OF 4		EXHIBIT P-5		

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE February 1995				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE FLOATING CRANE, 100-250 TON (M32400)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 97	TBS	C/FP (OPT)	ATCOM	Apr 97	Jun 98	1	13,875,000	YES		
REMARKS										

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1082

PRODUCTION SCHEDULE

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

FLOATING CRANE, 100-250 TON

(M32400)

S E R		U M E A		ACCEP PRIOR TO		BAL DUE AS OF		FISCAL YEAR 97				FISCAL YEAR 98				FISCAL YEAR 99				L A T E R											
F A C		F Y QTY		1 OCT		1 OCT		CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99															
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	A	97	1			1																									
TOTALS						1																									
F A C		MANUFACTURERS NAME & LOCATION				PRODUCTION RATES				MONTHS TO REACH MAX AFTER D DAY				ADMIN LEAD TIME				MANUFACTURING TIME				TOTAL AFTER									
1 TBS						MIN * 1-8-5 MAX				REACH MAX AFTER D DAY				PRIOR AFTER				TOTAL AFTER													
						1 4 8 6								'1 OCT 1 OCT				'1 OCT													
														INITIAL 3 6				15 21													
														REORDER																	

DD Form 2445, JUL 87

P-1 SHOPPING LIST

ITEM NO 147

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100	100	100	100

EXH. P-21

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE: February 1995	
BUDGET ITEM JUSTIFICATION SHEET													
P-1 ITEM NOMENCLATURE													
RAILWAY CAR, FLAT, 100 TON (M37000)													
APPROPRIATION /BUDGET ACTIVITY													
Other Procurement: Army 3													
Other Support Equipment													
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
QUANTITY		187	241	238	297	356	398	232	393				
COST (IN MILLIONS)		15.1	11.5	11.8	15.0	18.6	21.4	12.9	22.5				
<p>DESCRIPTION: Funding is for the acquisition of 68 and 89 foot railcars of a design type already approved by the Association of American Railroads (AAR). Railcars are to be prepositioned at select Army installations per the congressionally mandated Mobility Requirements Study (MRS) approved by the Joint Chiefs of Staff (JCS) in January 1992, and per the Army Strategic Mobility Plan (ASMP). As a result of a decision within the Army, used 68 and 89 foot railcars will be acquired beginning in FY 95.</p> <p>JUSTIFICATION: Prepositioning of railcars at Army installations is essential for mobilization purposes, especially with the forces becoming increasingly CONUS-based. Under the ASMP, the lead brigade at select installations must be fully outloaded to the port of embarkation in C+2 days, with an entire division to be outloaded in C+6 days. Experience with the railroad industry (as evidenced during Desert Shield/Desert Storm) has shown that it takes an average time of seven to ten days to order and receive commercial railcars for outloading purposes. Additionally, industry is retiring many of their fleet of flatcars with no intention of replacement. As such, to meet the C+2 and C+6 mobilization requirements in response to regional threats/conflicts, it is essential that the Army acquire and preposition railcars at installations such as Ft. Hood, Ft. Campbell, Ft. Stewart, Ft. Bliss and Ft. Benning. The acquisition of railcars is required to outload combat and combat support equipment in the time frames required, thereby greatly enhancing our warfighting capability. FY 96 and 97 acquisitions are essential for increasing the Army's mobilization readiness state.</p>													
DD Form 2454, Jul 88		P-1 SHOPPING LIST						UNCLASSIFIED		Page of Pages			
		ITEM NO 149						PAGE NO 1 OF 5		EXHIBIT P-40			

UNCLASSIFIED										DATE: February 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT										P-1 ITEM NOMENCLATURE	
APPROPRIATION /BUDGET ACTIVITY										RAILWAY CAR, FLAT, 100 TON (M37000)	
Other Procurement: Army 3										WEAPON MODEL/SERIES/POPULAR NAME	
Other Support Equipment											
MANUFACTURER NAME											
PLANT CITY/STATE LOCATION											
See P-5A											
TOTAL COST IN THOUSANDS OF DOLLARS											
Weapon System Cost Elements											
IDENT CODE											
FY 94 UNIT COST											
Quantity TOTAL COST											
FY 95 UNIT COST											
Quantity TOTAL COST											
FY 96 UNIT COST											
Quantity TOTAL COST											
FY 97 UNIT COST											
Quantity TOTAL COST											
1. Hardware - 68 foot railcar										121	122
2. Hardware - 89 foot railcar										5,761	5,996
3. Engineering Services										120	116
										5,713	5,702
										60	69
TOTAL										11,534	11,767
P-1 SHOPPING LIST										Page of Pages	
ITEM NO 149										EXHIBIT P-5	
PAGE NO 2 OF 5											

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		CLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE: February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE RAILWAY CAR, FLAT, 100 TON										(M37000)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
68 Foot Railcar FY 94	AMF, Montreal, Canada	C/FP/Option	ATCOM	Jun 94	Nov 94	93	75087	YES	NO				
89 Foot Railcar FY 94	AMF, Montreal, Canada	C/FP/Option	ATCOM	Jun 94	Nov 94	94	85892	YES	NO				
68 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	121	47611	YES	NO				
89 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	120	47611	YES	NO				
68 Foot Railcar FY 96	TBS	C/FP	ATCOM	Apr 96	Oct 96	122	49151	YES	NO				
89 Foot Railcar FY 96	TBS	C/FP	ATCOM	Apr 96	Oct 96	116	49151	YES	NO				
89 Foot Railcar FY 97	TBS	C/FP	ATCOM	Apr 97	Oct 97	297	50477	YES	NO				
REMARKS The unit cost decrease beginning in FY 95 is a result of the Army decision to buy used railcars beginning in FY 95.													
P1 SHOPPING LIST				UNCLASSIFIED				Page of		Pages			
ITEM NO 149				PAGE NO 3 OF 5						EXHIBIT P-5A			

PRODUCTION SCHEDULE

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR. FLAT. 100 TON

(M37000)

[illegible]

UNCLASSIFIED

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

PRODUCTION SCHEDULE

DATE: February 1995

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

(M37000)

			FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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REMARKS: Manufacturing time is 7 months for used railcars. The production rate decreases to 24 per month on the 1-8-5 schedule as rebuild shops do not have the production capability that new car manufacturers possess. Initial and reorder times are equal since options on used railcars cannot be done.

P-1 SHOPPING LIST

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EXHIBIT P-21

REPORTS CONTROL SYMBOL DD-COMP(AR) 1082		UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET		DATE: February 1985	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)					
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
QUANTITY							
COST (IN MILLIONS)	2.0	2.2	3.6	6.0	9.7	8.3	4.9
DESCRIPTION: Railroad equipment consists of locomotives, rolling stock, track maintenance equipment, etc., used to support Army ammunition plants, AMC depots, and FORSCOM/TRADOC Installations in peacetime and mobilization missions.							
JUSTIFICATION: Rail - acquisition of high quality used railroad equipment (e.g. locomotives, tank cars, box cars, flat cars, maintenance tool sets) for replacement of over age, logistically unsupportable assets. Acquisitions will provide a safe, secure means for the transportation and handling of hazardous materials used in the ammunition manufacture process, and in the movement of completed ammunition to distribution points. Also, acquisition of rail assets will insure compliance with ammunition production contracts and schedules, will improve the U.S. Army's ability to meet unit training requirements and will improve the capability to meet projected surge-driven scenarios for unit mobilization outloading and ammunition production. Replacement of over age assets is required per the 23 Sep 91 OASD memo, subject: Management of Intra-Installation Rail Facilities, which states that DOD components will budget for assets not meeting Federal Railroad Administration (FRA) standards. Funding in FY 96 and FY 97 will be utilized to procure railroad equipment that meets FRA standards and increases Army Ammunition Plant readiness capabilities.							
DD Form 2454, Jul 88		P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages	
		ITEM NO 150		PAGE NO 1 OF 5		EXHIBIT P-40	

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE: February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE									
		MANUFACTURER NAME PLANT CITY/STATE LOCATION		ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355) WEAPON MODEL/SERIES/POPULAR NAME							
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS									
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST			
M395, Railway Car, Tank, POL	A			7							
M377, Boxcar, 50 Ton (50 foot)	A	56 1,999	33000	231	37717	53 1,999	39196	51 1,999			
M371, Flatcar, 50 Ton	A		36345	55 1,999		17		20 1,999			
M363, Boxcar, 50 Ton (40 foot)	A				94294	1,603	99950	1,999			
							72556	27 1,959			
TOTAL		1,999		2,230		3,602		5,957			
P-1 SHOPPING LIST										UNCLASSIFIED	
ITEM NO 150										PAGE NO 2 OF 5	
										Page of Pages EXHIBIT P-5	

UNCLASSIFIED										DATE: February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092										ITEMS LESS THAN \$2 MILLION DOLLARS	
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE	
FY 95										ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M395, Railway Car, Tank, POL	589	582	589	33000	7	231	FP	C	Mar-95	
2	M377, Boxcar, 50 Ton (50 foot)	485	251	308	38345	55	1,999	FP	C	Mar-95	
TOTAL							2,230				
P-1 SHOPPING LIST										UNCLASSIFIED	
ITEM NO 150										PAGE NO 3 OF 5	
										Page of Pages	
										EXHIBIT P-3B	

UNCLASSIFIED										DATE: February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092										ITEMS LESS THAN \$2 MILLION DOLLARS	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE	
FY 98										ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	
										(ML5355)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M377, Boxcar, 50 Ton (50 foot)	485	308	359	37717	53	1,999	FP	C	Mar-98	
2	M371, Flatcar, 50 Ton	84	0	17	94294	17	1,603	FP	C	Jun-98	
TOTAL							3,602				
P-1 SHOPPING LIST										UNCLASSIFIED	
ITEM NO 150										Page of Pages	
P NO 4 OF 5										EXHIBIT 3	

UNCLASSIFIED										DATE: February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092										ITEMS LESS THAN \$ 2 MILLION DOLLARS	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE	
FY 97										ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES BUY QTY)	UNIT COST	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	M377, Boxcar, 50 Ton (50 foot)	485	359	410	39196	51	1,999	FP	C	Mar-97	
2	M371, Flatcar, 50 Ton	64	17	37	99950	20	1,999	FP	C	Mar-97	
3	M363, Boxcar, 50 Ton (40 foot)	222	0	27	72556	27	1,959	FP	C	Jun-97	
TOTAL							5,957				
P-1 SHOPPING LIST										Page	of Pages
ITEM NO 150 PAGE NO 5 OF 5										EXHIBIT P-3B	

UNCLASSIFIED										DATE FEBRUARY 1995																												
BUDGET ITEM JUSTIFICATION SHEET																																						
P-1 ITEM NOMENCLATURE																																						
GENERATORS AND ASSOCIATED EQUIPMENT (MA9800)																																						
<table border="1"> <tr> <td></td> <td>FY94</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> <td>FY98</td> <td>FY99</td> <td>FY00</td> <td>FY01</td> </tr> <tr> <td>QUANTITY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>COST (IN MILLIONS)</td> <td>24.8</td> <td>25.2</td> <td>13.8</td> <td>15.7</td> <td>15.9</td> <td>16.5</td> <td>38.2</td> <td>65.2</td> </tr> </table>													FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	QUANTITY									COST (IN MILLIONS)	24.8	25.2	13.8	15.7	15.9	16.5	38.2	65.2
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01																														
QUANTITY																																						
COST (IN MILLIONS)	24.8	25.2	13.8	15.7	15.9	16.5	38.2	65.2																														

DESCRIPTION: Rollup of generators with varying sizes and capabilities specifically designed to provide power sources for numerous weapons, communication, medical and support systems which are designed to operate with mobile electric power.

JUSTIFICATION:

The Tactical Quiet Generators (TQG) and less than 3 KW Diesel programs are a result of DA and DOD direction to replace the current generator fleet. The current fleet is overaged, and doesn't meet current user requirements. These programs are designed to introduce into the DOD inventory a new family of generators (sizes 3 KW through 60 KW) that will satisfy the user requirements for:

1. Reduction in detection by threat forces of 80% (low operating noise and Infrared suppression).
2. Improved ground mobility, lighter weight, 5, 10, and 15 kw trailers compatible with HMMWV.
3. Improved reliability and lower operating and support costs. (reduction in scheduled maintenance, reduction in fuel consumption)
4. Improved battlefield survivability (high altitude electromagnetic pulse protection).
5. Single fuel on the battlefield (diesel/JP8).
6. Reduced generator requirements (with utilization of the Distribution Illumination System Electric - DISE).

The generators and associated equipment budget line is a roll line containing some 40 separate generators, power plants/power units and associated equipment.

The TQG program will replace the current fleet of overaged, gasoline fueled generators with assets that will enhance the user's safety and survivability. These mobile generators provide electrical power to virtually every weapon, communication, medical, and combat support system in the Army inventory. All new systems procured that require electrical power will be supported by these generators.

REPORTS CONTROL SYMBOL		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE FEBRUARY 1995	
DD-COMP(AR) 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT				P-1 ITEM NOMENCLATURE				DATE FEBRUARY 1995	
APPROPRIATION /BUDGET ACTIVITY		WEAPON SYSTEM COST ANALYSIS EXHIBIT				P-1 ITEM NOMENCLATURE				DATE FEBRUARY 1995	
Other Procurement: Army 3		WEAPON SYSTEM COST ANALYSIS EXHIBIT				P-1 ITEM NOMENCLATURE				DATE FEBRUARY 1995	
Other Support Equipment		WEAPON SYSTEM COST ANALYSIS EXHIBIT				P-1 ITEM NOMENCLATURE				DATE FEBRUARY 1995	
MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME				WEAPON MODEL/SERIES/POPULAR NAME				DATE FEBRUARY 1995	
PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME				WEAPON MODEL/SERIES/POPULAR NAME				DATE FEBRUARY 1995	
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS				TOTAL COST IN THOUSANDS OF DOLLARS				TOTAL COST IN THOUSANDS OF DOLLARS	
IDENT CODE	FY 94 UNIT COST	Quantity	FY 95 UNIT COST	Quantity	FY 96 UNIT COST	Quantity	FY 97 UNIT COST	Quantity	FY 98 UNIT COST	Quantity	FY 99 UNIT COST
3 KW GENERATOR SETS	0	803	0	5091	532	3576	614	3576	185	2116	244
5KW GENERATOR SET	60	1037	22	774	32	494	185	2116	244	2989	265
10KW GENERATOR SET	307	4913	0	187	143	1695	244	2989	265	0	265
15KW GENERATOR SET	184	4046	14	919	173	2659	265	0	265	0	265
30KW GENERATOR SET	150	3759	337	6147	147	2481	265	0	265	0	265
60KW GENERATOR SET	132	4051	196	4306	103	1987	330	0	330	0	330
POWER UNITS/POWER PLANTS	151	4242	670	4661	0	73	262	4405	262	4405	262
DISTRIBUTION ILLUMINATION SYSTEMS	100	1587	1587	1587	100	161	161	161	161	161	161
READINESS INCENTIVES	2649	2649	1534	1534	685	1608	1608	1608	1608	1608	1608
TOTAL	24797	25206	25206	25206	13761	15715	15715	15715	15715	15715	15715

UNCLASSIFIED										DATE FEBRUARY 1995																																					
BUDGET ITEM JUSTIFICATION SHEET																																															
P-1 ITEM NOMENCLATURE																																															
GENERATOR SETS 3 KW																																															
()																																															
<table border="1"> <tr> <td></td> <td>FY 94</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> <td>FY98</td> <td>FY99</td> <td>FY00</td> <td>FY01</td> </tr> <tr> <td></td> <td></td> <td>903</td> <td>532</td> <td>614</td> <td>312</td> <td>324</td> <td>823</td> <td>1368</td> </tr> <tr> <td>QUANTITY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>COST (IN MILLIONS)</td> <td>0.0</td> <td>5.1</td> <td>3.6</td> <td>3.6</td> <td>1.3</td> <td>1.4</td> <td>3.2</td> <td>5.5</td> </tr> </table>													FY 94	FY95	FY96	FY97	FY98	FY99	FY00	FY01			903	532	614	312	324	823	1368	QUANTITY									COST (IN MILLIONS)	0.0	5.1	3.6	3.6	1.3	1.4	3.2	5.5
	FY 94	FY95	FY96	FY97	FY98	FY99	FY00	FY01																																							
		903	532	614	312	324	823	1368																																							
QUANTITY																																															
COST (IN MILLIONS)	0.0	5.1	3.6	3.6	1.3	1.4	3.2	5.5																																							
<p>REPORTS CONTROL SYMBOL DD-COMP(AR) 1092</p> <p>APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment</p>																																															
<p>DESCRIPTION: 3 KW Generator Set, Skid Mounted, Diesel Fueled Tactical Quiet Generator</p> <p>JUSTIFICATION: This program will replace existing gasoline fueled generator sets with assets that increase safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power plant production program. They are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:</p> <ul style="list-style-type: none"> - Avenger - Mobile Subscriber Equipment - Patriot Missile - Hawk Missile - Multiple Launch Rocket System - Numerous communication and combat support systems. <p>The programs in FY96/97 is intended to continue the production of the 3KW TQG's and match the fielding of the 5-60KW TQG's.</p>																																															
<table border="1"> <tr> <td colspan="6">P-1 SHOPPING LIST</td> <td colspan="2">UNCLASSIFIED</td> <td colspan="2">Page of Pages</td> </tr> <tr> <td colspan="6">ITEM NO 151</td> <td colspan="2">PAGE 3</td> <td colspan="2">of 45</td> </tr> </table>												P-1 SHOPPING LIST						UNCLASSIFIED		Page of Pages		ITEM NO 151						PAGE 3		of 45																	
P-1 SHOPPING LIST						UNCLASSIFIED		Page of Pages																																							
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<p>DD Form 2454, Jul 88</p> <p>EXHIBIT P-40</p>																																															

UNCLASSIFIED										DATE FEBRUARY 1995	
WEAPON SYSTEM COST ANALYSIS EXHIBIT											
P-1 ITEM NOMENCLATURE GENERATOR SETS 3 KW											
WEAPON MODEL/SERIES/POPULAR NAME TOG											
MANUFACTURER NAME PLANT CITY/STATE LOCATION											
TOTAL COST IN THOUSANDS OF DOLLARS											
FY 94										FY 95	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
FY 96										FY 97	
UNIT COST										UNIT COST	
Quantity										Quantity	
TOTAL COST										TOTAL COST	
1. Item Hardware										614	
2. Engineering Government										3300	
3. Eng Change Orders										176	
4. First Article Test										100	
5. Data										0	
TOTAL										3576	

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EXHIBIT P-5

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE FEBRUARY 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE GENERATOR SETS 3 KW										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1989	Fermont Corp. Bridgeport, Conn. (M851) 3/60 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	3800	5,000	Yes				
	(M536) 3/400 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	97	5,250	Yes				
	TBS (M581) 3/60KW	C/FP REQ4(1)	ATCOM	APR-95	AUG-96	903	5,000	Yes				
1995	TBS (M581) 3/60KW	C/FP REQ4(2) C/FP REQ4(2)	ATCOM ATCOM	Jan-96 Jan-96	AUG-97 AUG-97	445 87	5,175 5,383	No No	Yes Yes	Mar 95 Mar 95		
	TBS (M581) 3/60KW (M536) 3/400KW	C/FP REQ4(3) C/FP REQ4(3)	ATCOM ATCOM	Jan-97 Jan-97	JAN-98 JAN-98	546 68	5,350 5,570	No No	Yes Yes	Mar 95 Mar 95		
1996												
1997												
REMARKS		First delivery date for the FY89 buy has been extended due to First Article Test failure. Necessary changes have been completed and testing is in progress. Production approval scheduled for 1QFY95. FY95 award contingent on First Article Test acceptance. FY96 contract is a new requirements type contract with delivery order options for FY96, FY97 & FY98.										

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE									
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		GENERATOR SET 5KW TQG									
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
		60	22	32	185	182	191	482	905		
QUANTITY		1.0	.8	.5	2.1	2.1	2.3	5.7	9.1		
DESCRIPTION: 5 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ JUSTIFICATION: This program will replace existing overaged gasoline/diesel generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signature suppression. Some of these generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:											
MISSILE/AIR DEFENSE SYSTEMS: - Hawk Missile Systems - Tow Missile Systems - Patriot Missile System - Avenger - Multiple Launch Rocket System						SUPPORT SYSTEMS: - Helicopters (AH-64, AH-1) - Command and Control Centers					
COMMUNICATION SYSTEMS: - MSE - Radio Terminal Systems (BCR 11) - Radio Relay/Repeater Systems - Satellite Communication Systems - Combat Computer Systems											
NOTE: Due to the component commonality in the 5 & 10KW, they are to be procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.											
DD Form 2454, Jul 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page of		EXHIBIT P-40	
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REPORTS CONTROL SYMBOL		UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE FEBRUARY 1995	
DD-COM(AR) 1092		P-1 ITEM NOMENCLATURE		P-1 SHOPPING LIST		EX	
APPROPRIATION /BUDGET ACTIVITY		WEAPON MODEL/SERIES/POPULAR NAME		UNCLASSIFIED		Page of Pages	
Other Procurement: Army 3		TQG		UNCLASSIFIED		P-5	
Other Support Equipment		PLANT CITY/STATE LOCATION		UNCLASSIFIED		PAGE NO 9 OF 45	
MANUFACTURER NAME		PLANT CITY/STATE LOCATION		UNCLASSIFIED		P-5	
WEAPON MODEL/SERIES/POPULAR NAME		PLANT CITY/STATE LOCATION		UNCLASSIFIED		P-5	
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS		TOTAL COST IN THOUSANDS OF DOLLARS		TOTAL COST IN THOUSANDS OF DOLLARS	
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST
A	60	527	22	193	32	185	1804
1. Item Hardware							
2. Engineering Government		140	430	137	123		
3. Data		60	51	32	50		
4. Engineering Change Orders		61	50	22	14		
5. Acceptance Testing		249	50	0	125		
TOTAL		1037	774	494	2116		

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
GENERATOR SET 5 KW TQG											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092											
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1994	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	60	8,784	Yes			
1995	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	22	8,784	Yes	No		
1996	Fermont, Bridgeport, CT (M535) 5/60 KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jun 97	32	9,467	Yes	No		
1997	TBS (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan-97	Jul 98	185	9,752	No	Yes	Mar 96	
REMARKS Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation. FY94 contract is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test. FY97 contract is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has First Article Test. Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.											
P1 SHOPPING LIST						UNCLASSIFIED		Page of Pages			
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE											
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		GENERATOR SET 10KW TQG											
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	()			FY01	
QUANTITY		307	0	143	244	242	234	620				1134	
		4.9	2	1.7	2.9	3.2	3.2	7.9				14.3	
DESCRIPTION: 10 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ.													
JUSTIFICATION: This program will replace existing generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signal suppression. These generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:													
MISSILE/AIR DEFENSE SYSTEMS:				SUPPORT SYSTEMS:				COMMUNICATION SYSTEMS:					
- Hawk Missile Systems				- Helicopters (AH-64, AH-1)				- MSE					
- Tow Missile Systems				- Laundry Units				- Radio Terminal Systems (BCR 11)					
- Patriot Missile System				- Command and Control Centers				- Radio Relay/Repeater Systems					
- Avenger								- Satellite Communication Systems					
- Multiple Launch Rocket System								- Combat Computer Systems					
NOTE: Due to the component commonality in the 5 and 10 KW, they are procured under the same contract and produced on same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.													
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REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE FEBRUARY 1995				
DD-COMP(AR) 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT						
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		GENERATOR SET 10KW						
Other Support Equipment								
MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME						
PLANT CITY/STATE LOCATION		TQG						
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS						
IDENT CODE	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	A	307	0	143	244	2709		
2. Engineering Government		3656	0	1511				
3. Data		714	112	127	138			
4. Engineering Change Orders		177	50	35	75			
5. Acceptance Testing		208	25	22	14			
		158	0	0	53			
TOTAL		4913	187	1695	2989			

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EXHIBIT P-5

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
GENERATOR SET 10KW TQG											
P-1 ITEM NOMENCLATURE											
REPORTS CONTROL SYMBOL	UNCLASSIFIED									DATE FEBRUARY 1995	
DD-COMP(AR) 1092	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE										
Other Procurement: Army 3	GENERATOR SET 10KW TQG										
Other Support Equipment											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1994	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	307	11,909	YES			
1996	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (2)	ATCOM	Jan-96	Jan-97	143	10,566	Yes	No		
1997	TBS (M529) 10/60KW (M565) 10/400KW	C/FP REQ 3 (1) (1)	ATCOM ATCOM	Jan-97 Jan-97	Jul-98 Jul-98	226 18	10,884 13,888	No No	Yes Yes	Mar 96 Mar 96	
REMARKS FY94 is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test. FY97 is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has First Article Test. Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation. Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.											

UNCLASSIFIED										DATE FEBRUARY 1995					
BUDGET ITEM JUSTIFICATION SHEET															
P-1 ITEM NOMENCLATURE															
GENERATOR SETS 15 KW TQG															
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01							
	184	14	173	0	49	51	197	294							
QUANTITY															
COST (IN MILLIONS)	4.1	0.9	2.7	0.3	1.0	1.2	3.2	4.8							
<p>DESCRIPTION: 15 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ</p> <p>JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>MISSILE/AIR DEFENSE SYSTEMS</p> <ul style="list-style-type: none"> - Hawk Missile - Tow Missile - Patriot Missile - Avenger </div> <div style="width: 45%;"> <p>COMMUNICATION SYSTEMS</p> <ul style="list-style-type: none"> - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>SUPPORT SYSTEMS</p> <ul style="list-style-type: none"> - Water Purification Systems - Helicopters - Modular Print System - Medical Systems - Command and Control Centers </div> </div> <p>NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line. Engineering support cost for the TQG programs are not independent, but must be considered in the total to maintain program integrity.</p>															
DD Form 2454, Jul 88										P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages	
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REPORTS CONTROL SYMBOL		UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE FEBRUARY 1995				
DD-COMP(AR) 1092										
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		GENERATOR 15KW		GENERATOR 15KW						
Other Support Equipment										
		MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME						
		PLANT CITY/STATE LOCATION		TQG						
Weapon System Cost Elements		IDENT CODE	FY94 UNIT COST	Quantity TOTAL COST	FY95 UNIT COST	Quantity TOTAL COST	FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST
1. Item Hardware		A		184		14		173		0
2. Engineering Government				2,517		202		2428		0
3. Eng Change Orders				542		217		114		130
4. Acceptance Testing				332		200		86		21
5. Data				443		200		0		0
TOTAL				212		100		31		114
				4,046		919		2659		265
		P-1 SHOPPING LIST			UNCLASSIFIED			Page of Pages		
		ITEM NO 151			PAGE NO 19 OF 45			EXHIBIT P-6		

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
GENERATOR SET 15KW TQG											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092											
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1994	Fermont, Bridgeport, CT (M549) 15/60KW	C/FP REQ 3 (1)	ATCOM	JAN -95	JUL-96	84	12,785	Yes			
	(M526) 15/400	(1)	ATCOM	JAN-95	JUL-96	100	14,432	Yes			
1995	Fermont, Bridgeport, CT (M526) 15/400KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov-96	14	14,429	Yes	No		
1996	Fermont, Bridgeport, CT (M549) 15/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jan-97	173	14,035	Yes	No		
REMARKS											
FY94 is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test. Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.											
P1 SHOPPING LIST						UNCLASSIFIED			Page of Pages		
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1995		
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE GENERATOR SETS 30 KW TQG									
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	() FY 01		
QUANTITY		150	337	147	0	60	50	161	231		
COST (IN MILLIONS)		3.8	6.1	2.5	0.3	1.3	1.1	3.0	4.3		
DESCRIPTION: 30 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ											
JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:											
MISSILE/AIR DEFENSE SYSTEMS				COMMUNICATION SYSTEMS				SUPPORT SYSTEMS			
- Hawk Missile				- Mobile Subscriber Equipment				- Water Purification Systems			
- Tow Missile				- Radio Relay/Repeater Systems				- Helicopters			
- Patriot Missile				- Satellite Communication Systems				- Modular Print System			
- Avenger								- Medical Systems			
								- Command and Control Centers			
NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line. The same is also true for the 15kW set for either the 30&60kW or the 5&10kW TQG assembly line. Engineering support cost for the TQG programs are not independent but must be considered in the total to maintain program integrity.											
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED						BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		DATE FEBRUARY 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE GENERATOR SET 30KW TQG									
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1994	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	150	18,407	Yes			
1995	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	337	17,718	Yes	No		
1996	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jan-97	147	16,007	Yes	No		
REMARKS FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.											
P1 SHOPPING LIST		UNCLASSIFIED		Page of Pages		EXHIBIT P-5A					
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UNCLASSIFIED										DATE FEBRUARY 1995		
BUDGET ITEM JUSTIFICATION SHEET												
P-1 ITEM NOMENCLATURE												
GENERATOR SETS 60 KW TQG												
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
		132	196	103	0	32	50	99	209			
		4.1	4.3	2.0	0.3	1.0	1.5	2.2	4.3			
QUANTITY												
COST (IN MILLIONS)												
DESCRIPTION: 60 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ												
JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:												
MISSILE/AIR DEFENSE SYSTEMS <ul style="list-style-type: none"> - Hawk Missile - Tow Missile - Patriot Missile - Avenger 				COMMUNICATION SYSTEMS <ul style="list-style-type: none"> - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems 				SUPPORT SYSTEMS <ul style="list-style-type: none"> - Water Purification Systems - Helicopters - Modular Print System - Medical Systems - Command and Control Centers 				
NOTE: Due to component commonality the 15,30,60kW are procured under the same contract and produced on the same assembly line. Engineering support cost for the 15, 30, 60KW programs are not independent but must be considered in the total to maintain program integrity.												
DD Form 2454, Jul 89										UNCLASSIFIED		Page of Pages EXHIBIT P-40

REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE FEBRUARY 1995				
DD-COMP/ARI 1092		WEAPON SYSTEM COST ANALYSIS EXHIBIT						
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3		GENERATOR 60 KW						
Other Support Equipment		WEAPON MODEL/SERIES/POPULAR NAME						
		TQG						
MANUFACTURER NAME		PLANT CITY/STATE LOCATION						
WEAPON SYSTEM COST ELEMENTS		TOTAL COST IN THOUSANDS OF DOLLARS						
IDENT CODE	FY94 UNIT COST	Quantity TOTAL COST	FY95 UNIT COST	Quantity TOTAL COST	FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST
1. Item Hardware		132 2,346		196 3,496		103 1,893		0 0
2. Engineering Government		363		300		53		130
3. Eng Change Orders		258		200		30		86
4. Acceptance Testing		772		200		0		0
5. Data		312		110		11		114
TOTAL		4,051		4,306		1,987		330
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								EXHIBIT P-5

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT			DATE FEBRUARY 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE GENERATOR SET 60KW TQG									
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1994	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul-96	70	16,553	Yes			
	(M531) 60/400KW	(1)	ATCOM	Jan-95	Jul-96	62	19,154	Yes			
1995	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	196	17,841	Yes			
1996	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	May-97	103	18,377	Yes			
REMARKS FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96. FY94 contract has First Article Test,											
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UNCLASSIFIED										DATE FEBRUARY 1995				
BUDGET ITEM JUSTIFICATION SHEET														
P-1 ITEM NOMENCLATURE														
PRODUCTION OF POWER UNITS AND POWER PLANTS														
										FY97	FY98	FY99	FY00	FY01
										262	268	266	687	1149
										4.4	4.4	4.4	11.8	21.7
QUANTITY														
COST (IN MILLIONS)														
<p>DESCRIPTION: Depot Manufacturing Program: Chassis trailers are procured from TACOM. Electronic components and raw materiel are procured by depot. From these items the Power Units and Power Plants are assembled. These assemblies are completed when Tactical Quiet Generators, procured by ATCOM, are installed on the trailer interface. Power unit consist of 1 ea TQG mounted on 1 ea trailer interface. Power Plants consist of 2 ea TQG mounted on 1ea or 2 ea trailer interfaces with a paralleling switch box installed.</p> <p>JUSTIFICATION: This program will replace existing sets with TQG assets designed to provide greater reliability, quieter operation, extended mean-time-between failure, and replace overaged diesel and gasoline fueled assets.</p> <p>Total package fielding of the following systems are dependent upon these power unit/power plant configurations:</p> <ul style="list-style-type: none"> - MSE - Aviation Systems - Hawk Missile Systems - Patriot Missile Systems - Bradley Infantry Fighting Vehicle - Multiple Launch Rocket Systems - Computer Systems - Avenger - Satellite Communication Systems - Battlefield Communications Systems (BCR 11) <p>System Sustainment is critical for such items as:</p> <ul style="list-style-type: none"> - Air Defense Systems - Radio Relay/Repeater Systems - Radio Terminal Systems - MSE - Aviation Systems - Missile Systems - Medical Systems - Command and Control Centers - Combat Support Systems 														
<p>REPORTS CONTROL SYMBOL</p> <p>DD-COMP(AR) 1092</p> <p>APPROPRIATION/BUDGET ACTIVITY</p> <p>Other Procurement: Army 3</p> <p>Other Support Equipment</p>														

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE FEBRUARY 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE PRODUCTION OF POWER UNITS AND POWER PLANTS									
		MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME TQG							
Weapon System Cost Elements		TOTAL COST IN THOUSANDS OF DOLLARS									
IDENT CODE		FY 94		FY 95		FY 96		FY 97		Quantity	
		UNIT COST		UNIT COST		UNIT COST		UNIT COST		TOTAL COST	
		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
1. Item Hardware	A	151	670	0	0	0	0	0	0	262	4118
2. Engineering Government		1708	4337	0	0	0	0	0	0	100	95
3. Data		700	145	73	0	0	0	0	0	100	84
4. Engineering Change Orders		600	83	0	0	0	0	0	0	100	84
5. Acceptance Testing		700	50	0	0	0	0	0	0	100	84
		534	50	0	0	0	0	0	0	100	84
TOTAL		4242	4665	73	0	0	0	0	0	4497	4497

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE FEBRUARY 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE											
		PRODUCTION OF POWER UNITS AND POWER PLANTS											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
1994	Tobyhanna A.D. Tobyhanna, Pa (M510) PU-806 Production Trailer M200A1	WR	ATCOM	Mar-94	Sep-95	31	14,528	Yes					
	(R627) PU-797 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	100	9,353	Yes					
	(M506) AN/MJQ-42 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	18,507	Yes					
	(M548) AN/MJQ-43 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	13,688	Yes					
REMARKS													
Unit cost includes for production includes: depot procurement of electrical components and raw materials, and cost of trailer. manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp.													
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
PRODUCTION OF POWER UNITS AND POWER PLANTS											
REPORTS CONTROL SYMBOL											
DD-COMP(AR) 1092											
APPROPRIATION /BUDGET ACTIVITY											
Other Procurement: Army 3											
Other Support Equipment											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1995	Tobyhanna A.D. Tobyhanna, Pa (M591) PUJ-798 Production Trailer M116A3	WR	ATCOM	Mar-95	Sep 96	331	6,353	Yes			
	(NYA) PU-801 Production Trailer M103A3	WR	ATCOM	Mar-95	Sep 96	38	6,284	Yes			
	(M500) PU-802 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	77	6,284	Yes			
REMARKS											
Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY 95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).											
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REPORTS CONTROL SYMBOL		UNCLASSIFIED				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				DATE FEBRUARY 1995			
DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE											
APPROPRIATION /BUDGET ACTIVITY		PRODUCTION OF POWER UNITS AND POWER PLANTS											
Other Procurement: Army 3													
Other Support Equipment													
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE			
1995	Tobyhanna A.D. Tobyhanna, Pa (M543) PU-803 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	121	6,153	Yes					
	(M519) AN/MJQ-40 Production Trailer M200A1(2)	WR	ATCOM	Mar-95	Sep 96	10	18,303	Yes					
	(M509) PU-805 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	91	6,153	Yes					
	(M563) AN/MJQ-39 Production Trailer M200A1(2)	WR	ATCOM	Mar-95	Sep 96	1	18,303	Yes					
	(M563) PU-800 Production	WR	ATCOM	Mar-95	Sep 96	1	5,685	Yes					
REMARKS													
Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).													
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
Production of Power Units and Power Plants											
REPORTS CONTROL SYMBOL	DD-COMP(AR) 1092										
APPROPRIATION /BUDGET ACTIVITY											
Other Procurement: Army 3											
Other Support Equipment											
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1997	TBS (M506) AN/MJQ-42 Production Trailer HMT	C/FFFP/3 (1)	ATCOM	Jan 97	Sep 98	6	14,703	No	Yes	Mar 96	
	(M548) AN/MJQ-43 Production Trailer HMT	C/FFFP/3 (1)	ATCOM	Jan 97	Sep 98	5	20,900	No	Yes	Mar 96	
	(R627) PU-797 Production Trailer HMT	C/FFFP/3 (1)	ATCOM	Jan 97	Sep 98	36	11,395	No	Yes	Mar 96	
	(M541) AN/MJQ-35 Production Trailer M103A3	C/FFFP/3 (1)	ATCOM	Jan 97	Sep 98	14	20,500	No	Yes	Mar 96	
	(M662) AN/MJQ-36 Production Trailer M103A3	C/FFFP/3 (1)	ATCOM	Jan 97	Sep 98	11	23,150	No	Yes	Mar 96	
REMARKS	FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).										
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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT											
P-1 ITEM NOMENCLATURE											
Production of Power Units and Power Plants											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1997	TBS (M590) AN/MJQ-37 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	46	23,100	No	Yes	Mar 96	
	(M570) PU-799 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	23,100	No	Yes	Mar 96	
	(M500) PU-802 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	39	13,700	No	Yes	Mar 96	
	(M563) AN/MJQ-39 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	14,000	No	Yes	Mar 96	
	(M543) PU-803 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	10	14,700	No	Yes	Mar 96	
REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).											
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REPORTS CONTROL SYMBOL		UNCLASSIFIED					DATE FEBRUARY 1995			
DD-COMP(AR) 1092		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT								
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
Other Procurement: Army 3		Production of Power Units and Power Plants								
Other Support Equipment										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1997	TBS (M519) AN/MJQ-40 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	10	14,000	No	Yes	Mar 96
	(M509) PU-805 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	15	13,800	No	Yes	Mar 96
	(M511) AN/MJQ-41 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	3	33,000	No	Yes	Mar 96
	(M510) PU-806 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	6	13,500	No	Yes	Mar 96
	(M595) PU-804 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	2	11,500	No	Yes	Mar 96
REMARKS		FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).								
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UNCLASSIFIED										DATE FEBRUARY 1995		
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT												
P-1 ITEM NOMENCLATURE												
Production of Power Units and Power Plants												
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1997	TBS (R591) PU-798 Production Trailer HMT	C/FFFP/3 (1)	ATCOM		Jan 97	Sep 98	55	11,000	No	Yes	Mar 96	
REMARKS FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).												
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UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)									
APPROPRIATION /BUDGET ACTIVITY Other Procurement, Army: Army 3 Other Support Equipment		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
			452	2.1	32						
QUANTITY		0.1	1.6	0.1	0.2	0.1	0.1	0	0		
<p>DESCRIPTION: Distribution Illumination System Electrical is used to redistribute power from either a single generator or larger feeder system to multiple power users.</p> <p>JUSTIFICATION: Will be fielded in conjunction with Tactical Quiet Generators to support numerous communications, weapons, and medical systems. Distribution systems are planned to reduce the number of generators required by the Army by distributing power from one generator to multiple power requirements. Systems supported by this item include: Joint Tactical Fusion, Satellite Communications, Deployable Medical System, and most Table Organization and Equipment TQG applications.</p>											
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE FEBRUARY 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)				WEAPON MODEL/SERIES/POPULAR NAME DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)					
MANUFACTURER NAME PLANT CITY/STATE LOCATION		TOTAL COST IN THOUSANDS OF DOLLARS									
IDENT CODE		FY 94 UNIT COST		Quantity TOTAL COST		FY 95 UNIT COST		Quantity TOTAL COST		FY 97 UNIT COST	
1. HARDWARE		0		452		21		32		161	
2. GOVERNMENT ENGINEERING		100		1587		0		100		0	
TOTAL		100		1587		100		161			
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REPORTS CONTROL SYMBOL DD-COM(AR) 1092		UNCLASSIFIED					BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT			DATE FEBRUARY 1995		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL										
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1995	Federal Prison Industries 40 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	38	6,303	YES	NO			
	60 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	87	4,802	YES	NO			
	100 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	20	5,851	YES	NO			
	200 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	13	9,369	YES	NO			
	KIT ELEC UTIL (R62800)	SS/FP	ATCOM	Mar 95	Jan 96	294	2,357	YES	NO			
1996	Federal Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 96	Nov 96	21	4,802	#REF!	NO			
1997	Federal Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 97	Nov 97	32	5030	YES	NO			
REMARKS												
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UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE											
Generator Readiness Incentives											
										()	
										FY01	
										FY00	
										FY99	
										FY98	
										FY97	
										FY96	
										FY95	
										FY94	
										2.6	
										1.5	
										0.6	
										1.6	
										1.3	
										1.2	
										1.2	
Description: Supports numerous generator improvement programs: Sample Data Collection, Disassembly of Power Units and Power Plants, Generator Systems Assessments, production engineering, and various testing on generator systems, that are not separately authorized.											
Justification											
SAMPLE DATA COLLECTION CONTRACT/ FIELDING SUPPORT SYSTEM ASSEMENT											
FY 95 FY96 FY 97 0.610 0.200 0.600 0.574 0.140 0.658 0.350 0.345 0.350 1.534 0.685 1.608											
/											
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REPORTS CONTROL SYMBOL DD-COMP(CAR)1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET			DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (RTCH)					(M41200)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY			33				20	16		
COST(IN MILLIONS)			11.0				6.0	5.0		
<p>DESCRIPTION: The Rough Terrain Container Handler (RTCH) provides a capability of handling the 8' wide family of containers weighing up to 50,000 pounds and 20' and 40' long. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording in up to 5' of saltwater. The RTCH is a modified commercial design.</p> <p>JUSTIFICATION: The U.S. Army inventory now contains equipment that has demonstrated poor reliability due to age during operation Desert Storm (Kuwait) and Restore Hope (Somalia) and is becoming immensely difficult to support as repair parts become harder to obtain and more costly from commercial sources. This vehicle is used by terminal transfer, ammo companies, ammo plants, and depots.</p>										
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WEAPON SYSTEM COST ANALYSIS - EXHIBIT P - 5		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME TRUCK, FORK LIFT, DE, PT, RT 50000 LB (M41200) (RTCH)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995		
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
			FY 94		FY 95		FY 96		FY 97	
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
HARDWARE		A								
LOGISTICS SUPPORT										
GOVERNMENT ENGINEERING										
TOTAL PROGRAM COST										

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P-1 SHOPPING LIST

EXHIBIT P - 5 WEAPON SYSTEM COST ANALYSIS

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY
Other Procurement: Army 3
Other Support Equipment

P-1 ITEM NOMENCLATURE
TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)
(RTCH)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
FY 96	TO BE SELECTED	C/FP/OPT	TACOM	JAN 96	JUN 96	33	310,000	YES	NO	

REMARKS

FY 96 is an option to an Air Force contract.

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P-1 SHOPPING LIST

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EXHIBIT P - 5A PROCUREMENT HISTORY AND PLANNING

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ALL TERRAIN LIFTING ARTICULATED SYSTEM (M41800)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY			112	157					
COST (IN MILLIONS)			14.4	16.6					
<p>DESCRIPTION: The ALL Terrain Lifter Articulated System (ATLAS) is a rough terrain forklift which has the same mobility and speed as the 6,000 lb (6K) variable reach rough terrain forklift and can perform the functions required of the current Army standard 10,000 lb (10K) rough terrain forklifts.</p> <p>JUSTIFICATION: Current 6,000 and 10,000 lb rough terrain forklifts assigned to Quartermaster Units are not capable of stuffing and unstuffing 20 foot International Standardization Organization (ISO) containers. The current 10,000 lb forklift requires major disassembly and use of a special kit for air transport by C-130 aircraft. The ATLAS operational concept requires use throughout the theater to expedite logistical support functions. All classes of supply will be handled.</p>									
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME ALL TERRAIN LIFTING ARTICULATED SYSTEM (M41800)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995				
WEAPON SYSTEM COST ELEMENTS		IDENT CODE	FY 94		FY 95		FY 96		FY 97		QTY	TOTAL COST
			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
HARDWARE		B						99	11124	102		15885
DOCUMENTATION									850			
REFURBISHMENT									500			
SPECIAL TOOLS									149			56
TESTING									1073			
ENGINEERING SUPPORT									695			623
ENGINEERING CHANGE ORDERS								12			25	
TOTAL PROGRAM COST									14403			16589

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P-1 SHOPPING LIST

EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS

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OF 5

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

P-1 ITEM NOMENCLATURE

ALL TERRAIN LIFTING ARTICULATED SYSTEM (M41800)

COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	CFPM/OPTION	TACOM	JUN 96	NOV 96	112	99,321	NO	YES	MAY 96
FY 97	TO BE SELECTED	CFPM/OPTION	TACOM	MAR 97	AUG 97	157	101,178			

REMARKS

FY 96 AND FY 97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN FY 95 WHICH IS A COMPETITIVE FFP REQUIREMENTS TYPE CONTRACT.

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

ITEM NO 153 PAGE NO 3 OF 5

EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

CODE "B" ITEM DESCRIPTION		DATE February 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092					
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE All-Terrain Lifter Articulated System (M41800)						
CURRENT DEVELOPMENT AND TEST STATUS								
		SCHEDULE DATE						
CURRENT		LAST REPORTED		REASON FOR DELAY				
Nov 95								
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL						
ESTIMATED DATE OF APPROVAL FOR SERVICE USE May 96								
EQUIPMENT ITEM(S) TO BE REPLACED 10,000 lb Rough Terrain Forklift								
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED Introduces Variable Reach Capability for Stuffing and Unstuffing 20 Foot International Standardization Organization (ISO) Containers and 463L Pallet Handling capabilities to Quartermaster, Transportation, Ordnance, Missile and Munitions, Engineering, Aviation and Medical Units.								
DEVELOPMENT CONTRACT INFORMATION								
CONTRACTOR NAME		PLANT LOCATION	COMPONENT	THRU FYR 94	CY 95	BY1 96	BY2 97	BEYOND BY'S
All In-House To Be Selected				1.000	6.615	1.269		
TOTAL RDT&E FUNDING				1.000	6.615	1.269		
REMARKS MILESTONES		PLANNED	ACTUAL					
M/S III (Production Decision) FUE		May 96 Oct 97						
DD Form 2443, JUL 88		P-1 SHOPPING LIST		ITEM NO 153		PAGE NO 4 OF 5		EXHIBIT P-19

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED						BUDGET ITEM JUSTIFICATION SHEET		DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE)						(ML5365)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
QUANTITY											
COST(IN MILLIONS)	5.8	4.7	2.8	2.8	1.8	1.8	2.0	2.0			
DESCRIPTION: This program covers the various types of Material Handling Equipment (MHE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).											
JUSTIFICATION: This program is required to fill existing backorders and high priority shortages in Army Units, AMC maintenance depots and ammunition storage facilities. This critical combat support equipment is needed for movement of materials, supplies, and equipment. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure 3 different Materials Handling Equipment (MHE) systems (M487 - 4K LB Whse Tractor, M469 - 10K lb Whse Crane, and M482 - 6K lb Forklift). Each of these systems are being procured to replace overaged, high usage unsupportable models and fill priority shortages. These systems are essential to and are utilized in garrison, depot, ammunition plants and miscellaneous supply/material transport operations. These systems are considered essential in peacetime and are critically required in wartime operations.											
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 154 PAGE NO 1 OF 4				UNCLASSIFIED		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (MHE)	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION	D. DATE MONTH/YEAR February 1995	
WEAPON SYSTEM COST ELEMENTS	IDENT CODE	FY 94	FY 95	FY 96	FY 97
		QTY	QTY	QTY	QTY
		UNIT COST	UNIT COST	UNIT COST	UNIT COST
		TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST
6K SRT FL (M482)	A	(26) 1194	(16) 955	(14) 836	(22) 926
TRK FL 15K GAS (M490)	A	(23) 1994	(85) 1872	(31) 612	(33) 1823
CRANE, TRK WHS (M469)	A	(31) 612	(64) 1274	(103) 1974	
TRK FL 4K SRT (M483)	A	(64) 1274	(2) 36		
TRAC WHS 4K (M487)	A	(2) 36	(86) 706		23
TRK, FL, 2K, ELEC (M491)	A	(86) 706			
ENGR SUPPORT					
BELT CONVEYOR (M465)					
		5816	4694	2843	2772

DD Form 2446, JUN 86

P-1 SHOPPING LIST

EXHIBIT P-5 WEAPON SYTEM COST ANALYSIS

ITEM NO 154 PAGE NO 2 OF 4

UNCLASSIFIED										DATE February 1995	
REPORTS CONTROL SYMBOL DD-COMP(AR)1092										ITEMS LESS THAN \$ 2 MILLION DOLLARS	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment										P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE) FY 96 (ML5365)	
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FOP (INCLUDES BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE	
1	TRAC, WHS, 4K, DED (M487)	1344	1344	1344	19163	103	1974	FFP	OPTION	DEC 95	
2	CRANE, TRK, WHS (M469)	177	156	159	59714	14	836	FFP	OPTION	DEC 95	
P-1 SHOPPING LIST										UNCLASSIFIED	
ITEM NO 154 PAGE NO 3 OF 4										EXHIBIT P-5a	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED		DATE February 1995						
ITEMS LESS THAN \$2 MILLION DOLLARS		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE)		(ML5365)						
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		FY 97								
ITEM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS (INCLUDES BY FDP BY QTY)	UNIT COST	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
1	6K SRT FL (M482)	166	64	81	42091	22	926	FFP	CP	DEC 96
2	CRANE, TRK, WHS (M469)	177	159	177	55242	33	1823	FFP	OPTION	DEC 96

P-1 SHOPPING LIST

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UNCLASSIFIED

EXHIBIT P-5a

UNCLASSIFIED

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092

BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE COMBAT TRAINING CENTERS SUPPORT (MA6600)									
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST(IN MILLIONS)	22.9	21.1	22.2	5.6	13.9	14.9	33.8	34.8		

DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. CTC INCORPORATES THE FOLLOWING PROGRAMS: THE NATIONAL TRAINING CENTER (NTC), THE COMBAT MANEUVER TRAINING CENTER (JRTC), THE JOINT READINESS TRAINING CENTER (JRTC), AND THE BATTLE COMMAND TRAINING PROGRAM (BCTP). INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED UNDER THIS PROGRAM FOR THE THREE MANEUVER TRAINING CENTERS TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE INSTRUCTIVE AFTER ACTION REVIEWS. THIS PROVIDES VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONG-TERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS.

JUSTIFICATION:

THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE CTC'S ARE THE ARMY'S PREMIERE TRAINING AREAS. THEIR EFFECTIVENESS WAS DEMONSTRATED BY OUR SUCCESS IN DESERT STORM. IT IS ESSENTIAL THAT OUR INVESTMENT IN THE CTC'S BE MAINTAINED BY ASSURING THAT THE TRAINING PROVIDED REPRESENTS CURRENT DOCTRINE AND WEAPON CAPABILITY. THE JRTC FY96/FY97 PROGRAM ACQUISITION FOR JRTC INSTRUMENTATION SYSTEM MILITARY OPERATION IN URBAN TERRAIN (MOUT) PROVIDES INITIAL PROCUREMENT OF COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED DATA TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES) COMPATIBLE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE COMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT. THE NTC FY96/97 PROGRAM INCLUDES THE AH-64 INSTRUMENTATION SYSTEM EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE AGES II PRODUCTION SYSTEMS. THE EFFORTS OF THE NTC RANGE DATA MEASUREMENT SYSTEM (RDMS) WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENTS IN TRAINING.

DD Form 2454, JUL 88

P-1 SHOPPING LIST

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) COMBAT TRAINING CENTERS SUPPORT (MA6600)										B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE Month/Year February 1996	
Weapon System Cost Elements		Ident Code	FY 94 Unit Cost	FY 94 Qty	Total Cost	CY 95 Unit Cost	CY 95 Qty	Total Cost	BY1 Unit Cost	BY1 Qty	Total Cost	BY2 Unit Cost	BY2 Qty	Total Cost	
1	CMTC - Hohenfels, Germany:	A													
	CMTC Instrumentation System Support			767			4303								
2	JRTC - Ft. Chaffee, AR/Ft. Polk, LA:	A													
	JRTC Instrumentation System (JRTC-IS)			15686			8657				4552				
	JRTC Instrumentation System Support			141			0				2000				
	JRTC-MILES Grenade/Claymore														
	JRTC MOUT						2825				3563			500	
	JRTC MOUT Support										297			111	
	JRTC Live Fire Targets						3283								
3	NTC - Ft. Irwin, CA:	A													
	Range Data Measurement Subsystem (RDMS)			2250			3981				2876				
	Range Data Measurement Subsystem DCI's			1025			3286				424				
	Range Data Measurement Subsystem Support														
	CTC-IS/AGES II			95			2694				2156			4470	
	CTC-IS/AGES II Support						16				44			528	
	Observer-Controller Communication System			1000											
4	OPFOR Surrogate Vehicle (OSV)														
	OPFOR Surrogate Vehicle Support (OSV)														
5	Battle CMD Training PGM After Action Review			1850							3576				
	Battle CMD Trng Pgm After Action Review Support			105							824				
6	Camp Shelby -Armor Silhouette Target Mover and Physical Security System										1896				
											0				
	NOTE: FY95 (\$9059K) Reprogrammed to CTC (MA6600) From NSTD (NA0100)			22919			30145				22208			5609	

REPORTS CONTROL SYMBOL DD-COM(AR)1092		DATE FEBRUARY 1995	
UNCLASSIFIED			
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE JOINT READINESS TRAINING CENTER	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		(MAG601)	
QUANTITY	FY 94	FY 95	FY 96
COST (IN MILLIONS)	15.8	14.8	10.4
DESCRIPTION:	FY 97	FY 98	FY 99
THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER COMBAT TRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS. THEREBY INCREASING THE UNIT'S COMBAT READINESS. AS AN ADJUNCT TO JRTC OPERATIONS, THE CLAYMORE MINES AND HAND GRENADES TACTICAL ENGAGEMENT SIMULATORS WILL BE PROCURED. CURRENTLY, THERE IS A LIMITED INTERIM INSTRUMENTATION CAPABILITY IN USE AT THE JRTC. EXISTING CAPABILITIES CONSIST OF DATA COLLECTED FROM THE JRTC INTERIM INSTRUMENTATION SYSTEM (JRTC-IS), A VOICE RADIO COMMAND AND CONTROL NET, AND A LIMITED DIGITAL MAPPING SYSTEM AT A FIXED SITE USED FOR GRAPHIC PRESENTATIONS IN AFTER ACTION REVIEWS (AARS). THE OBJECTIVE JRTC-IS WILL MONITOR, GATHER, TIME-TAG, STORE, INTEGRATE, TRANSMIT, AND DISPLAY FORCE-ON-FORCE EXERCISE AND LIVE FIRE DATA. SYSTEM DEVICES WILL INDUCE REAL TIME, SIMULATED CASUALTIES INTO THE SCENARIO PLAY THAT IS AS CLOSE TO COMBAT REALISM AS POSSIBLE DURING ALL PHASES OF A UNIT'S MISSION. CURRENTLY THERE IS NO AUTOMATED CAPABILITY FOR TRAINING EVENT DATA COLLECTION OR COMMAND AND CONTROL OF UNITS PARTICIPATING IN ROTATIONAL MISSIONS CONDUCTED AT THE JRTC MOUT COMPLEX. THE JRTC MOUT COMPLEX WILL CONTAIN BOTH INSTRUMENTATION FOR DATA COLLECTION AND THE NECESSARY INTERACTIVE TARGET SYSTEMS WITH FEEDBACK SYSTEMS TO SUPPORT THE ROTATIONAL SCENARIO PLAY. THE INSTRUMENTATION SYSTEM REQUIRED WILL SUPPORT THE JRTC OPERATIONS GROUP PERSONNEL IN THE ABOVE DATA COLLECTION EFFORT AS WELL AS THE COMMAND AND CONTROL OF THE PLAYERS.	FY 00	FY 01	
JUSTIFICATION:			
THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE JRTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E., FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCES). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE JRTC-IS WILL ENABLE THE OBSERVER/CONTROLLER (OIC) TO DISPLAY SELECTED SEGMENTS OF THE BATTLE, SCORED DATA, AND REPORTS DURING THE AAR. THE POSITION LOCATION OF SELECTED FRIENDLY AND OPPOSING FORCE PARTICIPANTS WILL BE TRACKED VIA THE JRTC-IS. POSITION LOCATION (PL) WILL GIVE AN ACCURATE PICTURE OF WHERE KEY LEADERS, UNITS, AND EQUIPMENT WERE LOCATED IN THE COURSE OF A TACTICAL ENGAGEMENT TO SUPPORT THE DEVELOPMENT OF TRAINING FEEDBACK FOR THE AAR. THE FY98 PROGRAM ACQUISITION FOR JRTC-IS WILL PROVIDE CRUCIAL PROGRAM SUPPORT, INCLUDING INDEPENDENT VERIFICATION AND VALIDATION (IV&V), DEFENSE CONTRACT MANAGEMENT ADMINISTRATIVE OFFICE, (OCMAO), AND INTEGRATION/TESTING SUPPORT. THESE EFFORTS ARE NECESSARY TO COMPLETE PRODUCTION AND FIELDING, WITH APPROPRIATE INTEGRATION AND TESTING, FOR LOT 1 OF THE JRTC-IS. THE JRTC MOUT COMPLEX WITH AN AUTOMATED CAPABILITY TO COLLECT AND RECORD EXERCISE EVENTS WILL ENHANCE BATTLEFIELD REPLAY ANALYSIS IN SUPPORT OF OVERALL TRAINING CONDUCTED AT THE JRTC. THIS EVENT DATA WILL PROVIDE UNIT TRAINING FEEDBACK VIA AAR INFORMATION INPUT AND UNIT TAKE HOME PACKAGES (THP) AND LESSONS LEARNED. THE AUTOMATED MOUT FACILITY WILL CAPITALIZE ON STATE-OF-THE-ART TECHNOLOGY TO PROVIDE OIC SAFETY CONTROL OF THE EXERCISE, WITH MONITORING/CONTROL OF MANEUVER DATA COLLECTION. THE FY98/97 PROGRAM ACQUISITION FOR JRTC MOUT PROVIDES INITIAL PROCUREMENT OF COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED LABOR TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MILES COMPATIBLE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE COMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT.			
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ITEM NO 155	PAGE NO 3	OF 22	Pages EXHIBIT P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) JOINT READINESS TRAINING CENTER (JRTC)				A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995	
WEAPONS SYSTEM COST ELEMENTS		IDENT. CODE	FY 94 UNIT COST	QTY	CY 95 UNIT COST	QTY	BY1 96 UNIT COST	QTY	BY2 97 UNIT COST	QTY	TOTAL COST
				TOTAL COST		TOTAL COST		TOTAL COST		TOTAL COST	
2. JRTC - FT CHAFFEE, ARIFT POLK, LA		A									
A. JRTC INSTRUMENTATION SYSTEM (JRTC-IS)											
A. JRTC-IS IN-HOUSE GOVERNMENT ENGINEERING SUPPORT			15686000	1 15686				100			
A. JRTC-IS SUPPORT OGA				141				400			
A. JRTC-IS FIRST ARTICLE TEST SUPPORT								352			
A. JRTC-IS PROVISIONING ITEMS								3700			
A. JRTC-IS SYSTEM SUPPORT											
A. JRTC-IS ECPS											
B. JRTC MILES CLAYMORE/GRENADE							197 10152	2000			
C. JRTC MOUT INSTRUMENTATION SYSTEM											
C. JRTC MOUT INSTRUMENTATION IN-HOUSE GOVERNMENT ENGINEERING SUPPORT					2825000 1 2825		3563000 1 3563	297	500000 1 500		
D. JRTC LIVE FIRE TARGET											
				15627							611
											10412

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

JOINT READINESS TRAINING CENTER (JRTC)

(MA6601)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
2A. JRTC-IS/FY93	CUBIC DEFENSE SAN DIEGO, CA	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUN 93	AUG 96	1	16601000	YES	NO	
2A. JRTC-IS/FY94	CUBIC DEFENSE SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 93	AUG 96	1	15886000	YES	NO	
2B. JRTC MILES CLYMR/GRNDE/FY96	UNKNOWN	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 95	MAY 96	10152	197	NO		JUL 95
2C. JRTC MOUT IS/FY95	SIGNAL COM SYS & SPLY GREENSBORO, NC	NC(8A) FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 95	MAR 96	1	2825000	NO		JUL 95
2C. JRTC MOUT IS/FY96	SIGNAL COM SYS & SPLY GREENSBORO, NC	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 96	AUG 96	1	3563000	NO		NOV 95
2C. JRTC MOUT IS/FY97	UNKNOWN	UNKNOWN	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	JUL 97	1	500000	NO		JAN 96

D. REMARKS

REPEAT'S CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995									
DD-COMPAR/1092										P-1 ITEM NOMENCLATURE																			
APPROPRIATION / BUDGET ACTIVITY										JOINT READINESS TRAINING CENTER (JRTC)										(MA8601)									
OTHER PROCUREMENT: ARMY 3																													
OTHER SUPPORT EQUIPMENT																													
FACILITY NO		U / E		S		PROGRAM QUANTITY		BAL DUE AS OF		FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			CALENDAR YEAR 94			CALENDAR YEAR 95			CALENDAR YEAR 96				

REPORTS CONTROL SYMBOL DD-COMPIARI1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET					DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER					(MAG601)	
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 01
QUANTITY								
COST (IN MILLIONS)	4.4	10.0	5.5					
DESCRIPTION: THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER TRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. THE CTC-IS/AGES II INSTRUMENTATION SYSTEM WILL PROVIDE A COMMON INTERFACE BETWEEN THE AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEMS. THIS EFFORT WILL ENHANCE CTC AFTER ACTION REVIEWS (AARS) FOR UNITS PARTICIPATING IN MILES BASED TACTICAL FORCE ON FORCE EXERCISES. IN ADDITION, THE INTERFACE WILL ALLOW FOR THE COLLECTION AND NEAR REAL TIME DISPLAY OF BATTLE CONTROLLING DATA FOR THE CTC EVALUATORS TO USE DURING THE TRAINING EXERCISES. THE NTC RANGE DATA MANAGEMENT SYSTEM (RDMS) IS A BI-DIRECTIONAL COMMUNICATION SYSTEM THAT RELAYS EVENT DATA GENERATED BY PLAYERS ON THE BATTLEFIELD BACK TO THE NTC CORE INSTRUMENTATION SYSTEM. THE UPGRADE PROGRAM FOR RDMS WILL INCORPORATE THE LATEST DESIGNS IN DATA COMMUNICATION SYSTEMS AND PROVIDE PROCUREMENT OF REQUIRED NUMBER OF DATA CONTROL INTERFACES FOR FULL OPERATIONAL EFFECTIVENESS. (THE NTC RANGE MONITORING AND CONTROL SYSTEM (RMCS) PROVIDES BACKBONE COMMUNICATIONS AND TERMINAL EQUIPMENT FOR MONITORING, COLLECTING, RECORDING AND EDITING TACTICAL VOICE AND DATA COMMUNICATIONS. IT ALSO PROVIDES VOICE, DATA AND VIDEO COMMUNICATIONS BETWEEN VARIOUS TRAINING PERSONNEL AND TRAINING SITES.) OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS. THE OPFOR SURROGATE VEHICLE (OSV) WILL PROVIDE VISUAL AND TACTICAL SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL PROVIDE KEY RECOGNITION SIGNATURES OF THE BMP-2 WITH BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ONBOARD WEAPON SYSTEMS.								
JUSTIFICATION: THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF. IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE NTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E. FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCE). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE CTC-IS/AGES II INSTRUMENTATION SYSTEM FOR THE FY96/FY97 PROGRAM INCLUDES EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE AGES II PRODUCTION SYSTEMS. THE EFFORTS OF THE NTC RDMS WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING.								
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 155 PAGE NO 8 OF 22			UNCLASSIFIED		Page of Pages EXHIBIT P-40	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE
NATIONAL TRAINING CENTER (NTC)

(MA6601)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
3A. NTC RDMS/FY93	MOTOROLA SCOTTSDALE, AZ	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 93	MAR 95	1	12897000	YES	NO	
3A. NTC RDMS/FY95	MOTOROLA SCOTTSDALE, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAY 95	JUL 95	900	4424	YES	NO	
3A. NTC RDMS/FY96	MOTOROLA SCOTTSDALE, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	DEC 95	650	4424	YES	NO	
3B. CTC-IS/AGES II/FY95	INTERCOASTAL MESA, AZ	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUN 95	SEP 95	89	30267	NO	YES	MAY 95
3B. CTC-IS AGES II/FY96	INTERCOASTAL MESA, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 96	APR 96	147	14667	NO	YES	MAY 95
3C. NTC O-CCS/FY94	HUGHES TORRANCE, CA	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 94	JUN 94	1	1000000	YES	NO	

D. REMARKS

CTC-IS/AGES II UNIT COSTS FOR FY96 ARE LOWER THAN FY95 BECAUSE THE FY95 COSTS INCLUDE NON-RECURRING EXPENSES ASSOCIATED WITH STARTING PRODUCTION.

CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995		REPORT CONTROL SYMBOL DD-COMP(AR) 1092	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC) CTC-INSTRUMENTATION SYSTEM/AGES II (MA6601)			
CURRENT DEVELOPMENT AND TEST STATUS					
		SCHEDULE DATE			
		CURRENT	LAST REPORTED	REASON FOR DELAY	
DEV TEST & EVAL (DT&E)		MAR 95-APR 95	FEB 95-APR 95	CONTRACT AWARD DELAYED	
INITIAL OPER TEST & EVAL (IOT&E)		N/A	N/A		
OPER TEST & EVAL (OT&E)		MAY 95	MAY 95-JUN 95		
AVAIL DATE OF TECH DATA PKG (TDP)		MAY 95	APR 95		
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE JUN 95					
EQUIPMENT ITEM(S) TO BE REPLACED					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED					
ADDITION OF INTERFACE ASSEMBLY TO THE AGES II EQUIPMENT TO ALLOW AGES II TO PROVIDE FORCE-ON-FORCE TRAINING DATA TO EACH COMBAT TRAINING CENTER (CTC) INSTRUMENTATION SYSTEM (IS).					
DEVELOPMENT CONTRACT INFORMATION RDT&E FUNDING PROFILE (\$ IN MILLIONS)					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY 97
INTERCOASTAL ELECTRONICS (ICE)	MESA, AZ	INTERFACE ASSEMBLY	1.9	0.2	
TOTAL RDT&E FUNDING			1.9	0.2	
REMARKS:					
1. RDT&E CONTRACT AWARD SEP 94. AWARD DELAYED DUE TO CHANGE IN TECHNOLOGY AND ACQUISITION STRATEGY.					
2. PROTOTYPE BUILD SEP 94-APR 95.					
DD Form 2443, JUL 88		P-1 SHOPPING LIST		Page	of Pages
ITEM NO	155	PAGE NO	11	OF EXHIBIT 2443	

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1985																			
DD-COMP(AR)1092										P-1 ITEM NOMENCLATURE																													
APPROPRIATION / BUDGET ACTIVITY										NATIONAL TRAINING CENTER (NTC)										(MA86001)																			
										FISCAL YEAR 93										FISCAL YEAR 94										FISCAL YEAR 95									
PROGRAM QUANTITY										CALENDAR YEAR 93										CALENDAR YEAR 94										CALENDAR YEAR 95									
ACCEPT										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
BAL DUE AS OF										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
FY 93 FY 94 FY 95 FY 96 FY 97 FY 98										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
U S										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
FACILITY NO										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
3A										1										1										1									
3A										800										850										850									
3A										89										147										147									
3B										1										1										1									
3B										1										1										1									
3C										1										1										1									
TOTAL MONTHLY PRODUCTION										1798										1798										1798									
FACILITY NO										MANUFACTURER'S NAME & LOCATION										PRODUCTION RATES										MONTHS TO REACH MAX AFTER 0 DAY									
3A										MOTOROLA, SCOTTSDALE, AZ										1 1 1										1 1 1									
3A										MOTOROLA, SCOTTSDALE, AZ										1 400 600										1 400 600									
3B										INTERCOASTAL, MESA, AZ										5 20 40										5 20 40									
3C										HUGES, TORRANCE, CA										1 1 1										1 1 1									

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		CLASSIFIED		DATE FEBRUARY 1995				
BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE OPPOSING-FORCES SURROGATE VEHICLE (OSV) (MA6601)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			4.4	5.0				
DESCRIPTION: THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMOS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY COMBINED ARMS COMMAND (CAC) THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMOS AND INTERFACES, BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF THE EARLY USER ASSESSMENT AT NTC.								
JUSTIFICATION: THE OPPOSING FORCE SURROGATE VEHICLE WILL PROVIDE NEEDED REALISTIC SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE IN THE NTC TRAINING ENVIRONMENT, RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING.								
DD Form 2454, JUL 88			P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages EXHIBIT P-40	
ITEM NO 155		PAGE NO 14		OF 22				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

OPPOSING FORCES SURROGATE VEHICLE (OSV)

(MAC601)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
4. OSV										
A. VEHICLE/FY96	RED RIVER ARMY DEPOT TEXARKANA, TX	CIFFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	JUN 97	12	298000	NO		JUN 95
A. VEHICLE/FY97	RED RIVER ARMY DEPOT TEXARKANA, TX	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	DEC 97	15	298000	NO		JUN 95

D. REMARKS

CODE "B" ITEM DESCRIPTION		DATE	FEBRUARY 1995	REPORT CONTROL SYMBOL DD-COMP(AR) 1092	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC) OPFOR SURROGATE VEHICLE (OSV) (MA6601)			
CURRENT DEVELOPMENT AND TEST STATUS					
SCHEDULE DATE					
CURRENT		LAST REPORTED		REASON FOR DELAY	
FEB 95		AUG 91			
N/A		DEC 93			
N/A		N/A			
JUNE 95		SEP 94			
DEV TEST & EVAL (DT&E)		PLAN/ACTUAL			
INITIAL OPER TEST & EVAL (IOT&E)		PLAN/ACTUAL			
OPER TEST & EVAL (OT&E)		PLAN/ACTUAL			
AVAIL DATE OF TECH DATA PKG (TDP)					
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE		MILESTONE III SEP 95			
EQUIPMENT ITEM(S) TO BE REPLACED					
M551 OPFOR VEHICLE					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED					
INCREASED MTBF AND USEFUL LIFE. DECREASED OVERHAUL COSTS. BETTER REPLICATION OF THREAT.					
DEVELOPMENT CONTRACT INFORMATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96
RED RIVER ARMY DEPOT (RRAD)	TEXARKANA, TX	M113 OSV	1.4	0.5	
TOTAL RDT&E FUNDING			1.4	0.5	
REMARKS:					
1. DEV TEST & EVAL (DT&E): AUG 91 DATE LAST REPORTED WAS FOR THE TECHNICAL FEASIBILITY TEST. NEW DATE IS FOR THE DT&E.					
2. INITIAL OPER TEST & EVAL (IOT&E): DEC 93 DATE LAST REPORTED WAS FOR THE INITIAL USER EVALUATION. THE TEST INTEGRATION WORKING GROUP HAS DETERMINED THAT THE IOT&E IS NOT REQUIRED. SHOULD HAVE BEEN "N/A" LAST REPORTED.					
3. AVAIL DATE OF TECH DATA PKG (TDP): SEP 94 LAST REPORTED WAS FOR THE INITIAL TDP. JUNE 95 IS FOR THE VALIDATED TDP.					
DD Form 2443, JUL 88		P-1 SHOPPING LIST		Page	of Pages
ITEM NO 155		PAGE NO 17		EXHIBIT P-19	
		OF 22			

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET							DATE FEBRUARY 1995
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)							(MA6601)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0		
QUANTITY									
COST(IN MILLIONS)	1.9		1.9						
<p>DESCRIPTION:</p> <p>BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND PRESENTED DURING THE AAR.</p> <p>JUSTIFICATION:</p> <p>THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING DATA SOURCE PROVIDER FOR INSIGHT INTO AND IMPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE AARS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMATICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 155 PAGE NO 19 OF 22			UNCLASSIFIED		Page of Pages EXHIBIT P-40		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEB 1995

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3			C. P-1 ITEM NOMENCLATURE (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)			BATTLE COMMAND TRAINING PROGRAM (MA6600)		
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW
5A BCTP AAR FY96	LOGICON, RDA	SS/FP	NAVAL AIR WARFARE CENTER, Orlando, FL	Jul-94	Feb-95	2	925000	YES
5B MACOM AAR/ FY96	LOGICON, RDA	SS/CP	NAVAL AIR WARFARE CENTER, Orlando, FL	Nov-95	Jan-96	1	700000	NO
5C CORPS/DIV AAR/FY96	LOGICON, RDA	SS/CP	NAVAL AIR WARFARE CENTER, Orlando, FL	Nov-95	Jan-96	2	598000	NO

D. REMARKS

THE SPECIFICATIONS ARE AVAILABLE FOR CURRENT SOFTWARE. SPECIFICATIONS MAY BE REVISED DUE TO SOFTWARE CHANGES PRIOR TO FY96 PROCUREMENT.

[illegible]

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)						Date	FEBRUARY 1995		
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature		PE		
OPA 3 CTC INSTRUMENTATION SUPPORT					MA6800 JRTC-IS		644715		
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	32.5	8.7	4.6						45.8
RD&E	8.4		1.0						9.4
0\$S	5.5	8.1	4.3	4.6	4.6	4.9	4.9	4.0	40.9
TRAINING SYSTEM DESCRIPTION: THE JOINT READINESS TRAINING CENTER INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SUPPORT THE UNIQUE OPERATIONAL REQUIREMENTS OF THE JRTC. WHILE THE OVERALL ARCHITECTURE WILL BE SIMILAR TO THE OTHER CTCs, THE LIGHT INFANTRY AND SPECIAL OPERATIONS FORCES GENERATE A STRIDENT SET OF TECHNICAL PERFORMANCE REQUIREMENTS.									
P-1 SHOP LIST			PAGE NO.		EXHIBIT-43, PAGE 1 of 6				
ITEM NO.			155 A		P-43 Simulator & Training Device Justification				

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation/P-1 Line Item			Weapon System (if applicable)			IOC Date		Equipment Nomenclature		PE	
OPA 3 CTC INST SPT						2QFY96		MA8600 JRTC-IS		644715	
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year	Budget Year 1		Budget Year 2	
					Qty	Cost		Qty	Cost	Qty	Cost
JRTC-IS	FT POLK, LA	4QFY96	4QFY96	N/A	1	32528	8657		4552		
					PAGE NO.		P-1 SHOP LIST ITEM NO.		EXHIBIT-43, PAGE 2 of 6		
					155 A		2a				

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)		
OPA 3 CTC INST SPT												
Description/Justification												
MA6600 JRTC-IS												
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	1	32291										
ECOs				2700								
Nonrecurring												
GFE												
Other (Specify) COST GROWTH				3007								
Total Hardware Costs		32291		5707								
SUPPORT COSTS												
Special SE												
Integrated Logistics Support				2300								
Other (Specify) TESTING		237		650								
Total Support Costs		237		2950								
Software/Courseware												
TOTAL COSTS		32528		8657								
P-1 SHOP LIST ITEM NO.					PAGE NO.			EXHIBIT 43, PAGE 3 of 6				
					155 A			3a				

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation(P-1 Line Item)		Weapons System (if applicable)				Equipment Nomenclature				PE	
OPA 3 CTC INSTRUMENTATION SUPPORT						MA6600 JRTC MOUT-IS				644715	
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc		2.8	3.9	0.6	4.0					11.3	
RD&E		1.4	1.0							2.4	
O&S		3.0	2.0	2.0	2.0	2.0	2.0	2.0	15		

TRAINING SYSTEM DESCRIPTION:

THE JOINT READINESS TRAINING CENTER (JRTC) MILITARY OPERATIONS IN URBAN TERRAIN (MOUT) INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SATISFY THE UNIQUE OPERATIONAL REQUIREMENTS FOR A MOUT ASSESSMENT AT THE JRTC.

P-1 SHOP LIST ITEM NO.		155 A	PAGE NO.	4a	EXHIBIT-43, PAGE 1 of 6	
					P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)		
OPA 3 CTC INST SPT												
Description/Justification												
MA600 JRTC MOUT-IS												
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)												
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs				2825			3563	1	500			
SUPPORT COSTS												
Special SE												
Integrated Logistics Support												
Other (Specify) In-house												
Gov't Engineering Support												
Total Support Costs							297		111			
Software/Courseware							297		111			
TOTAL COSTS				2825			3860		611			
			P-1 SHOP LIST ITEM NO.		155 A		PAGE NO.		6a		EXHIBIT-43, PAGE 3 of 6	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)						Date	FEBRUARY 1995
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature		PE
OPA 3 CTC INST SPT					MA6600 NTC RDMS UPGRADE		844715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3
Quantity							BY2 + 4
Proc	16.4	7.3	3.3				TOTAL
RDT&E	1.6						
O&S	13.5	12.3	10.6	12.5	10.0	10.0	10.0
TRAINING SYSTEM DESCRIPTION: NATIONAL TRAINING CENTER - RANGE DATA MEASUREMENT SYSTEM UPGRADE (NTC-RDMS) THIS PROJECT WILL MODERNIZE THE NTC POSITION LOCATION AND EVENT RECORDING SYSTEM. THIS UPGRADE WILL EXPLOIT THE INHERENT CAPABILITIES OF NEW SYSTEMS BEING FIELDIED TO THE NTC. FURTHER, THIS EFFORT WILL INCREASE THE NUMBER OF INSTRUMENTED PLAYERS.							
* NTC - INSTRUMENTATION SYSTEM SUPPORT (MA6600)							
P-1 SHOP LIST ITEM NO.		155 A		PAGE NO.		7a	
				EXHIBIT-43, PAGE 1 of 6			
				P-43 Simulator & Training Device Justification			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description/Justification													
MA8600 NTC RDMS UPGRADE													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)	1	15147	900	3981	650	2876							
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs													
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify) ENG SPT		1212		3286		424							
Total Support Costs													
Software/Courseware		16359		7267		3300							
TOTAL COSTS													
		P-1 SHOP LIST ITEM NO.		155 A		PAGE NO.		EXHIBIT-43, PAGE 3 of 6					

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)							Date	FEBRUARY 1995	
Appropriation/P-1 Line Item			Weapons System (if applicable)			Equipment Nomenclature		PE	
OPA 3 CTC INSTRUMENTATION SUPPORT						MA6600 CTC-IS/AGES II		644715	
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	0.4	2.7	2.2						5.3
RDT&E	1.6	0.15							1.75
O&S									

TRAINING SYSTEM DESCRIPTION:

THE CTC-IS/AGES II SYSTEM PROVIDES A COMMON INTERFACE BETWEEN AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEM (CTC IS). THIS INTERFACE WILL MONITOR AND CONTROL AVIATION MANEUVER TRAINING, PRODUCE AFTER ACTION REVIEWS (AARs), STANDARDIZE EVALUATION OF AVIATION TRAINING PERFORMANCE AND PROVIDE DETAILED TRAINING FEEDBACK IN NEAR REAL TIME. ARMY AVIATION UNITS WILL USE THE PRODUCTS GENERATED AND SUPPORTED BY THIS SYSTEM TO INTERNALLY IDENTIFY TRAINING AND PROFICIENCY STRENGTHS AND WEAKNESSES AND TO TAKE CORRECTIVE ACTION TO IMPROVE THEIR OVERALL COMBAT READINESS.

P-1 SHOP LIST ITEM NO.		155 A	PAGE NO.	10a	EXHIBIT-43, PAGE 1 of 6
					P-43 Simulator & Training Device Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)

Appropriation/P-1 Line Item		Weapon System (if applicable)				IOC Date				Equipment Nomenclature				Date	
OPA 3 CTC INST SPT						4QFY95				MA800 CTC-IS/AGES II				FEBRUARY 1995	
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2				
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost			
CTC-IS/AGES II	FT IRWIN, CA	4QFY95	4QFY95	N/A		395	89	2710	147	2200		644715			
		P-1 SHOP LIST ITEM NO.		155 A	PAGE NO.		EXHIBIT-43, PAGE 2 of 6								

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description/Justification													
MA8800 CTC-IS/AGES II													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)			89	2694	147	2156							
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs				2694		2156							
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify) TESTING				16									
ENGINEERING SPT		395				44							
Total Support Costs		395		16		44							
Software/Courseware													
TOTAL COSTS		395		2710		2200							
P-1 SHOP LIST ITEM NO.				155 A				PAGE NO.		EXHIBIT-43, PAGE 3 of 6			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)						Date	FEBRUARY 1995
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature		PE
OPA 3 CTC INST SPT					MA8600 NTC OSV		844715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3
Quantity							BY2 + 4
Proc			4.4	5.0	10.0	15.0	20.0
RD&E	1.3	0.5					
O&S		0.2	0.2	0.2	0.2	0.2	0.2
TOTAL							
74.4							
1.8							
1.4							
TRAINING SYSTEM DESCRIPTION: THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMOS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY CAC THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMOS AND INTERFACES, BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF THE EARLY USER ASSESSMENT AT NTC.							
P-1 SHOP LIST ITEM NO.		PAGE NO.		EXHIBIT-43, PAGE 1 of 6			
155 A		13a		P-43 Simulator & Training Device Justification			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description/Justification													
MA6600 NTC OSV													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)					12	3576	15	4470					
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs													
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify) PUBS						500	36						
ENGINEERING SPT						175	270						
TESTING						149	222						
Total Support Costs						824	528						
Software/Courseware						4400	4998						
TOTAL COSTS													
P-1 SHOP LIST ITEM NO.					PAGE NO.					EXHIBIT 43, PAGE 3 of 6			
					155 A					15a			

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1985
Appropriation/P-1 Line Item	Weapon System (if applicable)				Equipment Nomenclature				PE		
OPA 3 CTC INSTRUMENTATION SUPPORT					BCTP AAR					844715	
File Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4		Total	
Quantity											
Proc	1.9	0	1.9	0	0	0	0	0		03.8	
RDT&E	1	0	0	0	0	0	0	0		1	
O&S											

TRAINING SYSTEM DESCRIPTION:

BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND PRESENTED DURING THE AAR.

THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING AND DATA SOURCE PROVIDER FOR INSIGHT INTO AND IMPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS AND TO SUPPORT TRAINING. THE AARS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMATICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)										DATE		FEBRUARY 1995	
Training Device by Type		OPA 3								Weapon System (if applicable)			
CTC INSTRUMENTATION SUPPORT													
Description/Justification		BCIP AAR											
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)	2	1850			3	1898							
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs													
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify)													
TESTING SUPPORT		105											
Total Support Costs													
Software/Courseware													
TOTAL COSTS		1955				1898							
		PAGE NO. 155 A		18a		EXHIBIT P-43, Page 3 of 6							

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
P-1 ITEM NOMENCLATURE TRAINING DEVICES, NONSYSTEM (NA0100)											
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT											
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
QUANTITY											
COST (IN MILLIONS)	78.8	85.3	71.6	102.7	71.0	90.9	97.4	112.2			
<p>DESCRIPTION:</p> <p>THE ARMY CONTINUES TO BUILD ON A MAJOR INITIATIVE, WITH THE FY96/FY97 NSTD PROGRAM, TO INTRODUCE REALISTIC AND EFFECTIVE SIMULATIVE TRAINING DEVICES INTO THE INDIVIDUAL AND UNIT TRAINING SETTING. THESE DEVICES BRING INTO PLAY MANY ASPECTS OF THE COMBAT ENVIRONMENT (SMOKE, NOISE, CONFUSION, STRESS, ETC.) WHICH PROVIDE OUR SOLDIER THE VALUABLE EXPERIENCE OF BATTLEFIELD CONDITIONS IN A TRAINING ENVIRONMENT. THIS EFFORT INCLUDES THE ACQUISITION OF TRAINING SYSTEMS FOR MANEUVER SITUATION TARGET ENGAGEMENT SIMULATORS AND GAMM SIMULATIONS. DEVICES AND SIMULATIONS ARE BEING FIELDED TO MINIMIZE RESOURCE CONSUMPTION WHICH WILL EFFECT A DIRECT COST REDUCTION THROUGH CONSERVATION OF ENERGY AND AMMUNITION. THE REDUCTION OF AVAILABLE REAL ESTATE (RANGES AND MANEUVER AREAS) FOR TRAINING BEING EXPERIENCED BY BOTH ACTIVE AND RESERVE COMPONENT UNITS NECESSITATES THE INCREASED USE OF DEVICES AND SIMULATIONS. THE DEVICES AND SIMULATIONS ACQUIRED UNDER THE NSTD PROGRAM ARE ESSENTIAL FOR THE ARMY TO ACHIEVE THE GOAL OF INCREASING TRAINING EFFECTIVENESS AND SUSTAINING COMBAT READINESS IN A CONSTRAINED TRAINING ENVIRONMENT.</p> <p>JUSTIFICATION:</p> <p>THE FY96/97 NSTD PROGRAM WILL PROVIDE FOR THE CONTINUATION OF THE REMOTE TARGET SYSTEM (RETS), GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING (GUARDIST 1), THE SIMULATED AREA WEAPONS EFFECTS SIMULATOR - RADIO FREQUENCY (SAFE-RF), THE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) AND THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (TWGSS/PGS). IN FY 96 THE PROGRAM WILL ALSO INITIATE THE ACQUISITION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS). COST AND TRAINING EFFECTIVENESS ANALYSES ARE PERFORMED ON PROPOSED PROJECTS RESULTING IN ONLY THOSE PROGRAMS DEMONSTRATING HIGH POTENTIAL PAYOFFS BEING PURSUED. SIMULATORS PROCURED UNDER THIS LINE ARE EITHER THE RESULT OF A DEVELOPMENT EFFORT OR THE PURCHASE OF A NON-DEVELOPMENTAL ITEM.</p>											
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										EXHIBIT P-40	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) Training Devices, Non-System (NA0100)																
Weapon System Cost Elements		Ident Code	FY 94 Unit Cost	QTY Total Cost	A. Appropriation/Budget Activity Title/No. OPA 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE Month/Year February 1995					
					CY 95 Unit Cost	QTY Total Cost	BY1 96 Unit Cost	QTY Total Cost	BY2 97 Unit Cost	QTY Total Cost						
NA0101 NSTD Maneuver Close Combat				21023		48909		50915		66691						
Multiple Integrated Laser Engagement System 2000		A		0		12399		16517		38521						
Air Ground Engagement System II		A		5786		17953		0		0						
Guard Unit Armory Device for Full-Crew Interactive Simulation-Armor (Guardfist I)		A		1061		6666		10133		6314						
Tank Weapons Gunnery Sim Systems/Precision Gun Systems		A		1412		11891		24265		21856						
Thru-Sight Video-Worldwide		A		3295		0		0		0						
Precision Gunnery Training System		A		2397		0		0		0						
Close Combat Tactical Trainer		B		7072		0		0		0						
NA0103 NSTD Command and Control				9361		2983		4323		6026						
Combat Service Support Training Simulation System		B		0		0		4323		6026						
Brigade/Battalion Battle Simulation		A		1951		1638		0		0						
JANUS		A		3997		488		0		0						
Corps Battle Simulation		A		2958		427		0		0						
TACSIM/UAV/JSTARS		A		455		430		0		0						

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

Training Devices, Non-System (NA0100)

Weapon System Cost Elements	Ident Code	A. Appropriation/Budget Activity Title/No.		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE Month/Year February 1995	
		FY 94 Unit Cost	FY 94 Qty Total Cost	CY Unit Cost	FY 95 Qty Total Cost	BY1 Unit Cost	FY 96 Qty Total Cost	BY2 Unit Cost	FY 97 Qty Total Cost
NA0105 NSTD Range Targetry			16801		10621		13067		13056
Remoted Target System	A		8591		9621		13067		13056
Engagement Skills Trainer	A		0		1000		0		0
Area Weapons Scoring System	A		1935		0		0		0
Precision Range Integrated Maneuver Exercise	A		915		0		0		0
Weaponer	A		360						
Improved Moving Target Simulator	A		5000						
NA0106 NSTD Fire Support/Air Defense			31548		13751		3256		16887
Simulated Area Weapons Effects-Radio Frequency	A		29541		9445		3256		16887
Guard Unit Armory Device for Full-Crew Interactive Simulation-Artillery (Guardfist II)	A		2007		4306		0		0
NA0107 DATS									
Data Automated Tower Simulator (DATS)	A		41						
NOTE: FY95 (\$9059) Reprogrammed from NSTD (NA0100) to CTC (MA6600)									
			78774		76264		71561		102660

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T							DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE NSTD MANEUVER CLOSE COMBAT							(NAO101)	
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1	
QUANTITY										
COST (IN MILLIONS)		21.0	48.9	50.9	66.7	55.7	56.4	59.6	59.6	
<p>DESCRIPTION:</p> <p>THE TRAINING DEVICES/SIMULATIONS CONSOLIDATED UNDER THE MANEUVER CLOSE COMBAT SUBCATEGORY IN THE FY96/97 NSTD PROGRAM WILL BE UTILIZED IN MANEUVER AND ENGAGEMENT SIMULATION TRAINING. SPECIFIC DEVICES BEING PROCURED INCLUDE:</p> <p>MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) IS AN UPGRADE OF THE BASIC MILES SYSTEM AND PROVIDES/ENHANCES REAL TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINERS. GUARD UNIT ARMOY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING 1 (GUARDFIST 1) WILL CONSIST OF INTERACTIVE SCENARIOS. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND TRAINING EXERCISES. THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (TWGSS/PGS) IS USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. THE SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM, THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT.</p> <p>JUSTIFICATION:</p> <p>COLLECTIVELY, THE MANEUVER CLOSE COMBAT DEVICES/SIMULATIONS WILL SIGNIFICANTLY ENHANCE THE UNIT'S AND THE SOLDIER'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY THROUGH COMBINED ARMS OPERATIONS, PROVIDING INCREASED REALISTIC COMBAT TRAINING, UNLIMITED PRECISION GUNNERY PRACTICE WITHOUT EXPENDING COSTLY AMMUNITION AND INVALUABLE CREW AND INDIVIDUAL TRAINING. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS WHILE MINIMIZING OVERALL TRAINING COSTS. THE GUARDFIST 1 DEVICE WILL TRAIN AND EVALUATE INDIVIDUAL AND COLLECTIVE COMBAT SKILLS FROM BASIC GUNNERY TABLES I-IV AND TACTICAL TABLES A-C THROUGH INTERMEDIATE GUNNERY TABLES V-VIII. THE TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. MILES 2000 REPLACES THE BASIC MILES SYSTEM AND WILL PROVIDE NEEDED ENHANCED TRAINING CAPABILITIES.</p>										
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REPORTS CONTROL SYMBOL DD-COM(ARI)1092		UNCLASSIFIED					DATE FEBRUARY 1995 (NA0101)	
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE						
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)						
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
QUANTITY								
COST (IN MILLIONS)			12.4	16.5	38.5	33.8	36.5	45.6
DESCRIPTION:								
<p>THE MILES 2000 SYSTEM PROVIDES REAL-TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINING IN A FORCE-ON-FORCE TRAINING SCENARIO. MILES 2000 IS A REPLACEMENT OF ALL DIRECT-FIRE "BASIC" MILES DEVICES CURRENTLY FIELDIED.</p> <p>MILES 2000 IS AN ENHANCEMENT OF BASIC MILES WHICH PROVIDES THE FOLLOWING CAPABILITIES:</p> <ul style="list-style-type: none"> • 8 ASPECT ANGLES TO ACCOUNT FOR SIDE, FLANK, CORNER AND REAR SHOTS. EACH ASPECT ANGLE WILL HAVE ITS OWN ASSOCIATED PROBABILITY OF KILL (PK). • INCREASED PROGRAMMABILITY OF WEAPON CHARACTERISTICS, PROBABILITY OF KILL, RANGES, AND BASIC WEAPON AMMUNITION LOADS. • EVENT RECORDING AND DISPLAY. • DISCRETE PLAYER ID FOR ALL PARTICIPANTS. THIS WILL ENHANCE TRAINING IN TERMS OF AFTER-ACTION REVIEW, AND WILL AID IN IDENTIFYING AND REPLICATION OF ALL WEAPON CAPABILITIES AND VULNERABILITIES THROUGH LASER SIMULATION OF WEAPON FIRING EFFECTS, AND THROUGH PROGRAMMED SIMULATION OF VULNERABILITIES. • ENHANCED AUDIO-VISUAL CUEING EFFECTS TO REPLICATE BATTLEFIELD WEAPON EFFECTS. <p>JUSTIFICATION:</p> <p>BASIC MILES IS CURRENTLY OBSOLETE TECHNICALLY AND IS UNECONOMICAL TO REPAIR AND SUSTAIN. THE LIMITED NUMBER OF MILES 2000 DEVICES BOUGHT IN FY95 WILL BE COMPLETELY TESTED AND PRODUCTION QUALIFIED PRIOR TO AWARD OF FY96 PRODUCTION OPTION. FULL RATE PRODUCTION DEVICES WILL BE FIELDIED AS BATTALION SETS BEGINNING IN AUGUST 96 AND WILL CONTINUE UNTIL MILES 2000 COMPLETELY REPLACES EXISTING MILES IN THE FIELD.</p>								
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WEAPON SYSTEM COST ANALYSIS				A. APPROPRIATION/BUDGET			B. WEAPON		C. MANUFACTURER NAME		D. DATE				
EXHIBIT (P-5) MULTIPLE INTEGRATED LASER				ACTIVITY TITLE/NO.			MODEL/SERIES/POPULAR		PLANT CITY/STATE LOCATION		MONTH/YEAR				
ENGAGEMENT SYSTEM 2000 (MILES 2000) (NA0101)				OPA - 3			NAME				FEBRUARY 1985				
WEAPONS SYSTEM				FY 94		CY 95		BY 96		QTY					
COST ELEMENTS				UNIT COST		TOTAL COST		UNIT COST		TOTAL COST					
				QTY		TOTAL COST		QTY		TOTAL COST					
				IDENT. CODE											
1. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) A. M16A2 W/VEST B. SNIPER RIFLE C. SQUAD AUTOMATIC WEAPON D. LAW/AT-4 E. TOW F. M60 MG G. M2 XMTR H. M113 APC I. M2/3 BRADLEY J. M1 SERIES K. MITS L. CONTROLLER GUN M. SMALL ARMS ALIGNMENT FIXTURE (SAAF) N. VEHICLE SYSTEM TEST SETS (VSTS) O. INITIAL PRODUCTION FACILITIES P. NON-RECURRING ENGINEERING Q. PRODUCTION TESTING R. DATA (PRODUCTION/UPDATING OF MANUALS, ETC.) S. CONTRACTOR MANAGEMENT (LEVEL OF EFFORT) T. ENGINEERING CHANGES U. INTERIM CONTRACTOR LOGISTICS SUPPORT V. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT W. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT				A											
				3923		200		785		2641		1750		4125	
				4296		10		43		3587		50		125	
				4240		45		191		3063		144		360	
				9013		30		270		5084		178		445	
				16360		10		164		16360		20		25	
				4298		25		107		3179		40		50	
				4005		25		100		3245		55		130	
				7708		10		77		6576		75		200	
				17923		25		448		14298		129		425	
				14203		27		383		10919		115		375	
				2807		30		84		2807		750		1875	
				951		20		19		951		80		200	
				3670		4		15		3670		33		85	
				1075		4		4		1075		32		70	
				3425										1706	
				3024								817			
				486								268		469	
				544										545	
1102								606		545					
81								381		943					
282								1335		3302					
479								135							
286								265		111					
12399								16517		38521					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)								(NAO101)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1. MILES 2000												
A. M16A2 W/VEST/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	200	3923	YES	NO			
A. M16A2 W/VEST/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	1750	2641	YES	NO			
A. M16A2 W/VEST/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	4125	2511	YES	NO			
B. SNIPER RIFLE/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	4296	YES	NO			
B. SNIPER RIFLE/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	50	3587	YES	NO			
B. SNIPER RIFLE/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	125	3311	YES	NO			
C. SQUAD AUTO WEAPON/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	45	4240	YES	NO			
C. SQUAD AUTO WEAPON/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	144	3063	YES	NO			
C. SQUAD AUTO WEAPON/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	360	2846	YES	NO			
D. REMARKS												
CONTRACT AWARD DELAYED DUE TO EXTENDED SOURCE SELECTION PROCEDURES REQUIRED TO RESPOND TO DA DIRECTION ON MIL SPECS/STDs.												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)

(NA0101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. MILES 2000										
D. LAW/AT-4/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	30	9013	YES	NO	
D. LAW/AT-4/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	178	5084	YES	NO	
D. LAW/AT-4/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	445	4387	YES	NO	
E. TOW/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	16360	YES	NO	
E. TOW/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	20	16360	YES	NO	
E. TOW/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	25	16360	YES	NO	
F. M60 MG/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	4298	YES	NO	
F. M60 MG/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	40	3179	YES	NO	
F. M60 MG/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	50	2862	YES	NO	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)								(NA0101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. MILES 2000											
G. M2 XMTR/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	4005	YES	NO		
G. M2 XMTR/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	55	3245	YES	NO		
G. M2 XMTR/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	130	2951	YES	NO		
H. M113 APC/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	10	7708	YES	NO		
H. M113 APC/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	75	6576	YES	NO		
H. M113 APC/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	200	6293	YES	NO		
I. M213 BRADLEY/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	25	17923	YES	NO		
I. M213 BRADLEY/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	129	14298	YES	NO		
I. M213 BRADLEY/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	425	13620	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)									(NA0101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. MILES 2000											
J. M1 SERIES/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	27	14203	YES	NO		
J. M1 SERIES/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	115	10919	YES	NO		
J. M1 SERIES/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	375	10328	YES	NO		
K. MITS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	30	2807	YES	NO		
K. MITS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	750	2807	YES	NO		
K. MITS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	1875	2807	YES	NO		
L. CONTROLLER GUN/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	20	951	YES	NO		
L. CONTROLLER GUN/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	80	951	YES	NO		
L. CONTROLLER GUN/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	200	951	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)								(NA0101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. MILES 2000											
M. SAAF/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	4	3670	YES	NO		
M. SAAF/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	33	3670	YES	NO		
M. SAAF/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	85	3670	YES	NO		
N. VSTS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	JUN 96	4	1075	YES	NO		
N. VSTS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	32	1075	YES	NO		
N. VSTS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	FEB 97	70	1075	YES	NO		
D. REMARKS											

REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE FEBRUARY 1995											
DD FORM 1092		PRODUCTION SCHEDULE													
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE													
OTHER PROCUREMENT: ARMY 3		MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)													
OTHER SUPPORT EQUIPMENT		(MAO101)													
PROGRAM QUANTITY		FISCAL YEAR 84		FISCAL YEAR 85		FISCAL YEAR 86		FISCAL YEAR 87		FISCAL YEAR 88		FISCAL YEAR 89		FISCAL YEAR 90	
FACILITY NO		U		S		ACCEPT		B/L		DUE		AS OF		10 OCT	
FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91	
1D	EA	30	178	445	25	40	50	823	0	0	0	0	0	0	0
1D	EA								0	30	178	445	25	40	50
1D	EA								0	0	0	0	0	0	0
1E	EA	10	20	25	25	25	25	25	0	10	20	25	25	25	25
1E	EA								0	0	0	0	0	0	0
1E	EA								0	0	0	0	0	0	0
1F	EA	25	40	50	50	50	50	50	0	25	40	50	50	50	50
1F	EA								0	0	0	0	0	0	0
1F	EA								0	0	0	0	0	0	0
TOTAL MONTHLY PRODUCTION									823	0	0	0	0	0	0
MANUFACTURERS NAME & LOCATION									REMARKS:						
1A UNKNOWN									ADMIN LEAD TIME						
1B-D, I UNKNOWN									MANUFACTURING TIME						
1E-J UNKNOWN									TOTAL AFTER 1 OCT						
1K UNKNOWN									INITIAL						
									REORDER						
									MONTHS TO REACH MAX AFTER 0 DAY						
									MINIMUM						
									MAXIMUM						
									1-85						
									25						
									5						
									2						
									75						
									10						
									300						
									600						
DD Form 2445, JUL 87									P-1 SHOPPING LIST						
ITEM NO 156									PAGE NO 14						
OF 65									UNCLASSIFIED						
Page									OF						
EXHIBIT P-21									Pages						

REPORTS CONTROL SYMBOL										DATE FEBRUARY 1995																				
DD-COMPARI1092																														
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																				
OTHER PROCUREMENT: ARMY 3										MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)																				
OTHER SUPPORT EQUIPMENT										(NA0101)																				
FACILITY NO		U S		PROGRAM QUANTITY		ACCEPT		BAL		FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 96			FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			FISCAL YEAR 00		
NO		J E		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		
NO		M N		EA		EA		EA		EA		EA		EA		EA		EA		EA		EA		EA		EA		EA		
1G	EA			25					0	25																				
1G	EA								0	55																				
1G	EA								0	130																				
1H	EA								0	10																				
1H	EA			10					0	75																				
1H	EA								0	200																				
1I	EA								0	25																				
1I	EA			25					0	129																				
1I	EA								0	425																				
TOTAL MONTHLY PRODUCTION										1074																				
FACILITY NO		MANUFACTURER'S NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT		REMARKS:																
NO				MINIMUM		MAXIMUM		PRIOR 1 OCT		AFTER 1 OCT		TOTAL																		
1A	UNKNOWN			25	900	1800																								
1B-D,I	UNKNOWN			5	100	200																								
1E-J	UNKNOWN			2	75	150																								
1K	UNKNOWN			10	300	600																								

DD Form 2445, JUL 87

DD Form 2445, JUL 87

DD Form 2445, JUL 87

[illegible]

[illegible]

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995																			
DD-COMPAR1082										PRODUCTION SCHEDULE																													
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																													
OTHER PROCUREMENT: ARMY 3										MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)										(NA0101)																			
OTHER SUPPORT EQUIPMENT																																							
PROGRAM QUANTITY										FISCAL YEAR 97										FISCAL YEAR 98										FISCAL YEAR 99									
ACCEPT										CALENDAR YEAR 97										CALENDAR YEAR 98										CALENDAR YEAR 99									
B/L										OCT										OCT										OCT									
PRIORITY										JAN										JAN										JAN									
DUE										FEB										FEB										FEB									
AS OF										MAR										MAR										MAR									
1 OCT										APR										APR										APR									
1 OCT										MAY										MAY										MAY									
FY 99										JUN										JUN										JUN									
FY 98										JUL										JUL										JUL									
FY 97										AUG										AUG										AUG									
FY 96										SEP										SEP										SEP									
FY 95										OCT										OCT										OCT									
FY 94										NOV										NOV										NOV									
FY 93										DEC										DEC										DEC									
FY 92										JAN										JAN										JAN									
FY 91										FEB										FEB										FEB									
FY 90										MAR										MAR										MAR									
FY 89										APR										APR										APR									
FY 88										MAY										MAY										MAY									
FY 87										JUN										JUN										JUN									
FY 86										JUL										JUL										JUL									
FY 85										AUG										AUG										AUG									
FY 84										SEP										SEP										SEP									
FY 83										OCT										OCT										OCT									
FY 82										NOV										NOV										NOV									
FY 81										DEC										DEC										DEC									
FY 80										JAN										JAN										JAN									
FY 79										FEB										FEB										FEB									
FY 78										MAR										MAR										MAR									
FY 77										APR										APR										APR									
FY 76										MAY										MAY										MAY									
FY 75										JUN										JUN										JUN									
FY 74										JUL										JUL										JUL									
FY 73										AUG										AUG										AUG									
FY 72										SEP										SEP										SEP									
FY 71										OCT										OCT										OCT									
FY 70										NOV										NOV										NOV									
FY 69										DEC										DEC										DEC									
FY 68										JAN										JAN										JAN									
FY 67										FEB										FEB										FEB									
FY 66										MAR										MAR										MAR									
FY 65										APR										APR										APR									
FY 64										MAY										MAY										MAY									
FY 63										JUN										JUN										JUN									
FY 62										JUL										JUL										JUL									
FY 61										AUG										AUG										AUG									
FY 60										SEP										SEP										SEP									
FY 59										OCT										OCT										OCT									
FY 58										NOV										NOV										NOV									
FY 57										DEC										DEC										DEC									
FY 56										JAN										JAN										JAN									
FY 55										FEB										FEB										FEB									
FY 54										MAR										MAR										MAR									
FY 53										APR										APR										APR									
FY 52										MAY										MAY										MAY									
FY 51										JUN										JUN										JUN									
FY 50										JUL										JUL										JUL									
FY 49										AUG										AUG										AUG									
FY 48										SEP										SEP										SEP									
FY 47										OCT										OCT										OCT									
FY 46										NOV										NOV										NOV									
FY 45										DEC										DEC										DEC									
FY 44										JAN										JAN										JAN									
FY 43										FEB										FEB										FEB									
FY 42										MAR										MAR										MAR									
FY 41										APR										APR										APR									
FY 40										MAY																													

REPORTS CONTROL SYMBOL DD-COM(AR)1092		UNCLASSIFIED					DATE FEBRUARY 1995		
BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE AIR GROUND ENGAGEMENT SYSTEM (AGES II) (NAO101)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)	5.8		17.9						
DESCRIPTION: AGES II EXPANDS THE CURRENT MULTIPLE INTEGRATED ENGAGEMENT SYSTEM (MILES) BY INCORPORATING MILES TRAINING DEVICES FOR THE AH-64, AH-64A+, OH-58D, OH-58D WARRIOR, CH-47D, UH-60A, UH-60L AVIATION HELICOPTERS AND THE FIELD ARTILLERY GROUND/VEHICLE LASER LOCATOR DESIGNATOR (GVLDD), REFERRED TO AS THE HELIFIRE GROUND SUPPORT SYSTEM (HGSS). THE TRAINING DEVICES PROVIDE INTEGRATED AND REMOVABLE COMPONENTS FOR EYE SAFE LASER OPERATIONS TO ACCURATELY SIMULATE THE VULNERABILITY CHARACTERISTICS, WEAPON CHARACTERISTICS AND WEAPONS EFFECTS OF THE PLATFORM BEING SIMULATED. THE AGES II TRAINING DEVICES PROVIDE TRANSPARENT OPERATION TO THE CREW(S) IN EMPLOYING, OPERATING AND ENGAGING WITH THEIR WEAPON SYSTEMS USING THE ONBOARD TACTICAL WEAPON SYSTEMS WITH EYE SAFE LASERS TO SIMULATE LIVE ORDNANCE. AGES II SYSTEM FEATURES INCLUDE: EYE SAFE LASER RANGE FINDING, EYE SAFE DESIGNATION (FOR LASER GUIDED MUNITIONS - HELIFIRE AND COPPERHEAD), INTERFACES TO THE FIRE CONTROL COMPUTER (FCC), 1553 BUS, NAVIGATION SYSTEM AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE), EVENT RECORDING FOR AFTER ACTION REVIEWS, BUILT IN TEST AND VOICE MESSAGES TO THE CREW. WEAPON SYSTEMS SIMULATED INCLUDE: EYE SAFE RANGE FINDING OPERATIONS OUT TO 10 KILOMETERS, HELIFIRE SIMULATION OUT TO 8 KILOMETERS, 30 MILLIMETER CANNON SIMULATION OUT TO 3 KILOMETERS, AND HYDRA 70 ROCKET SIMULATION (DIRECT FIRE ONLY) OUT TO 6 KILOMETERS USING ALL TACTICAL MODES OF WEAPON EMPLOYMENT. AGES II IS A TRAINING SYSTEM THAT CAN BE USED FOR INDIVIDUAL, CREW, COLLECTIVE AND FORCE-ON-FORCE TRAINING. THE SIMULATIONS SIGNIFICANTLY ENHANCE THE SOLDIER'S/UNIT'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS SINCE THE PROPER WEAPON EMPLOYMENT, ENGAGEMENT TECHNIQUES AND WEAPON SYSTEM SWITCHING SKILLS ARE PRONE TO DECAY OVER TIME. THE AGES II DEVICES ALLOW THE FLIGHT AND GROUND CREWS TO CONDUCT SIMULATED COMBAT OPERATIONS ALLOWING EVALUATION OF CRITICAL TASKS AT HOME STATION AND THE COMBAT TRAINING CENTERS.									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) AIR GROUND ENGAGEMENT SYSTEM (AGES II)				A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995		
WEAPONS SYSTEM COST ELEMENTS				IDENT. CODE	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY 96 UNIT COST	QTY TOTAL COST	BY 97 UNIT COST	QTY TOTAL COST
2. AGES II				A								
A. AH-64A + HARDWARE							163572	98		16030		
B. FIRST ARTICLE TEST (FY90 CONTRACT)						390						
C. ECP FOR WIRE STRIKE PROTECTION SYSTEM AND INTERNAL BORE SIGHT						5396				900		
D. AH-64A + PRODUCTION TESTING										547		
E. AH-64A + DOCUMENTATION										476		
TOTAL						5786						17953

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENTC. P-1 ITEM NOMENCLATURE
AIR GROUND ENGAGEMENT SYSTEM (AGES II)

(NAO101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
2. AGES II										
A. AH-64A+ /FY95	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 95	AUG 96	98	163572	YES	NO	
G. OH-58D/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	7	387329	YES	NO	
H. UH-60/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	228	55143	YES	NO	
I. CH-47/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	28	66706	YES	NO	
J. HGSS/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	260	44135	YES	NO	
K. CONTROLLER DEV/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	MAR 95	150	11682	YES	NO	
L. AH-64A/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 90	APR 95	30	345222	YES	NO	

D. REMARKS

2A CONTRACT AWARD DELAYED DUE TO AH-64A MODERNIZATION PROGRAM CONFIGURATION CHANGES. AIRCRAFT BASELINE HAS NOW BEEN ESTABLISHED.

2J HGSS/FY90 - 20 ACCELERATED HGSS DELIVERED TO FIELD ARTILLERY SCHOOL PRIOR TO FAT COMPLETION TO SATISFY AN URGENT TRAINING NEED.

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE		FEBRUARY 1995											
DD-COMPARI1092										PRODUCTION SCHEDULE																							
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																							
OTHER PROCUREMENT: ARMY 3										AIR GROUND ENGAGEMENT SYSTEM (AGES II)																							
OTHER SUPPORT EQUIPMENT																																	
FACILITY NO		U S		PROGRAM QUANTITY						FISCAL YEAR 94			FISCAL YEAR 95			FISCAL YEAR 98			CALENDAR YEAR 98			CALENDAR YEAR 95			CALENDAR YEAR 94			CALENDAR YEAR 93			CALENDAR YEAR 92		
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO		U S		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08	
FACILITY NO																																	

[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED				DATE FEBRUARY 1995			
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE							
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE SIMULATION TRAINING - ARMOR (GUARDFIST I) (NA0101)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)	1.1	6.7	10.1	6.3					
DESCRIPTION:									
GUARDFIST I CONSISTS OF INTERACTIVE SCENARIOS VIEWED THROUGH VISION BLOCKS FOR THE DRIVER, THE PERISCOPE/TELESCOPE FOR THE GUNNER, AND COMMANDER'S WEAPON STATION (UNITY WINDOW)/GUNNER'S PRIMARY SITE EXTENSION. A SERIES OF TARGETS, HAVING FREEDOM OF MOVEMENT, WILL BE INTRODUCED BY A SCENARIO CONTROLLER. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND INSTITUTIONAL TRAINING EXERCISES.									
JUSTIFICATION:									
THERE EXISTS IN THE ARMY NATIONAL GUARD (ARNG) AN IMMEDIATE NEED TO IMPROVE THE TRAINING OPPORTUNITY/PROFICIENCY OF ITS M1 ARMOR CREWMEN. THESE ARMOR CREWMEN NEED A REALISTIC, STRESS-FILLED SIMULATED COMBAT TRAINING DEVICE AVAILABLE AT THEIR LOCAL ARMORY THAT CAN PROVIDE THEM WITH A SERIES OF RELATIVE, INTERACTIVE BATTLEFIELD SCENARIOS FOR TANK GUNNERY, DRIVING, AND TACTICAL EXERCISES. THE DEVICE WILL BE APPENDED TO A TANK IN ORDER TO MAXIMIZE REALISTIC TACTICAL SENSATIONS AND BE DESIGNED TO ALLOW EACH CREW MEMBER TO ATTAIN AND SUSTAIN THE SKILLS REQUIRED BY HIS DUTY POSITION. THE GUARDFIST I DEVICE WILL RESULT IN INCREASED CREW GUNNERY/TACTICAL PROFICIENCY AT FAR LESS COST FOR AMMUNITION, FUEL, TRAINING AREAS, AND MAINTENANCE AVOIDANCE THAN A STRATEGY WITHOUT THIS DEVICE. FY96-FY97 CONTINUES THE PRODUCTION OF THE GUARDFIST I PROGRAM, AND THROUGH FY97 115 DEVICES WILL HAVE BEEN PROCURED OF THE APPROVED TOTAL REQUIREMENT OF 261 SYSTEMS.									
DD Form 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages	
ITEM NO 156		PAGE NO 27		OF 65		EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS				A. APPROPRIATION/BUDGET				B. WEAPON		C. MANUFACTURER NAME		D. DATE	
EXHIBIT (P-5) GUARD UNIT ARMOR DIVICE FOR FULL-CREW INTERACTIVE				ACTIVITY TITLE/NO.				MODEL/SERIES/POPULAR		PLANT CITY/STATE LOCATION		MONTH/YEAR	
SIMULATION TRAINING - ARMOR (GUARDFIST I)				OPA - 3				NAME				FEBRUARY 1985	
WEAPONS SYSTEM				FY 94		CY 95		QTY		BY1 96		QTY	
COST ELEMENTS				UNIT COST		UNIT COST		TOTAL COST		UNIT COST		TOTAL COST	
3. GUARDFIST I				A									
A. HARDWARE						21		5820		198590		47	
B. TRANSIT CASES						380		135		380		799	
C. PRODUCTION QUALIFICATION TEST						570							
D. CONTRACTOR ENGINEERING SUPPORT						261		221				116	
E. CONTRACTOR TEST SUPPORT						230		87					
F. ADA SOFTWARE MAINTENANCE SUPPORT								134					
G. INTERIM CONTRACTOR LOGISTICS SUPPORT								227				260	
H. ECPS								42				78	
I. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT												42	
J. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT													
						1061		6666				10133	
												28	
												5375	
												476	
												181	
												151	
												190	
												297	
												78	
												42	
												6314	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE
SIMULATION TRAINING - ARMOR (GUARDFIST I)

(NAO101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
3A. GUARDFIST I/FY93	IND DATA LINK SAN DIEGO, CA	C/FP W/OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 93	DEC 94	31	346290	YES	NO	
3A. GUARDFIST I/FY95	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	OCT 95	21	277142	YES	NO	
3A. GUARDFIST I/FY96	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAY 96	47	198590	YES	NO	
3A. GUARDFIST I/FY97	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAY 97	28	191964	YES	NO	
3B. TRANSIT CASES/FY93	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	AUG 94	DEC 94	527	380	YES	NO	
3B. TRANSIT CASES/FY95	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	OCT 95	357	380	YES	NO	
3B. TRANSIT CASES/FY96	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAY 96	799	380	YES	NO	
3B. TRANSIT CASES/FY97	IND DATA LINK SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAY 97	476	380	YES	NO	

D. REMARKS

LOW RATE INITIAL PRODUCTION WITH OPTIONS. UNIT COST IS AVERAGE COST OF ALL UNITS IN A LOT.

ADA SOFTWARE (SW) MAINTENANCE SUPPORT IS A ONE-TIME OPTION IN THE CONTRACT TO PROVIDE A SPECIAL SW MAINTENANCE CAPABILITY "TOOL" FOR IN-HOUSE GOVERNMENT USE. THE CONTRACTOR WILL PERFORM THE NECESSARY SW MAINTENANCE DURING FY95 & FY96 AS PART OF INITIAL START-UP REQUIREMENTS. THE GOVERNMENT WILL ASSUME THIS SW MAINTENANCE FUNCTION DURING FY97.

[illegible]

REPORTS CONTROL SYMBOL DD-COM(AR)1092		UNCLASSIFIED				DATE		FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE							
		TANK WEAPONS GUNNERY SIMULATION SYSTEM/ PRECISION GUNNERY SYSTEM (TWGSS/PGS) (NA0101)							
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)	1.4	11.9	24.3	21.9	21.9	19.9	10.9		
DESCRIPTION:									
<p>DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT. SYSTEM SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSS/PGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILT (FORWARDS/BACKWARDS), CANT (SIDE/SIDE), AND DEFLADE CONDITION TO DETERMINE TARGET VULNERABILITY.</p>									
JUSTIFICATION:									
<p>TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSS/PGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY, ACTIVE AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP BY THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THUS, WEAPONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSS/PGS, WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMY RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LOCAL TRAINING AREA, MAJOR TRAINING AREA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND MAKE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSS/PGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY TRAINING CAPABILITY ANYTIME, ANYWHERE. THE FIRST OPTION TO THE CONTRACT FOR HARDWARE AFTER SATISFACTORY COMPLETION OF PRODUCTION QUALIFICATION TEST, WILL PROCURE 115 TWGSS (M1M1A1) UNITS AND 74 PGS (M2M3) UNITS. THE FY96 - FY97 OPTIONS WILL CONTINUE PROCUREMENT OF REQUIRED TWGSS/PGS UNITS.</p>									
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WEAPON SYSTEM COST ANALYSIS																	
EXHIBIT (P-5) TANK WEAPONS GUNNERY SIMULATION SYSTEM (TWGSS)				A. APPROPRIATION/BUDGET		B. WEAPON		C. MANUFACTURER NAME		D. DATE							
PRECISION GUNNERY SYSTEM (PGS)				ACTIVITY TITLE/NO.		MODEL/SERIES/POPULAR		PLANT CITY/STATE LOCATION		MONTH/YEAR							
				OPA - 3		NAME				FEBRUARY 1995							
WEAPONS SYSTEM				FY 94		QTY		BY1 96		QTY							
COST ELEMENTS				UNIT COST		TOTAL COST		UNIT COST		TOTAL COST							
5. TWGSS/PGS A. TWGSS (M1/M1A1) B. PGS (M2/M3) C. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT D. CONTRACTOR ENGINEERING SUPPORT E. PRODUCTION QUALIFICATION TESTING F. ECPS				A		100 700 612		CY 95 62611 62577		QTY 115 7200 74 4631 52		TOTAL COST 266 13856 198 10314 52		BY2 97 55507 55509 101		228 12655 163 9048 52	
1412		11891		24265		21856											

BUDGET PROCUREMENT HISTORY AND PLANNING EXP (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

TANK WEAPONS GUNNERY SIMULATION SYSTEM/
PRECISION GUNNERY SYSTEM (TWGSS/PGS)

(NA0101)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
5. TWGSS/PGS										
A. TWGSS/FY92	SAAB TRNG SYS SWEDEN	C/FPI	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 92	APR 95	42	159612	YES	NO	
B. PGS/FY92	SAAB TRNG SYS SWEDEN	C/FPI	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 92	APR 95	21	174912	YES	NO	
A. TWGSS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	AUG 95	115	62611	YES	NO	
B. PGS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 95	AUG 95	74	62577	YES	NO	
A. TWGSS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAR 96	266	52090	YES	NO	
B. PGS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 95	MAR 96	198	52091	YES	NO	
A. TWGSS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAR 97	228	55507	YES	NO	
B. PGS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 96	MAR 97	163	55509	YES	NO	

D. REMARKS

CHANGE IN PRODUCTION QUANTITIES FOR FY95 REFLECT INCREASE IN UNIT PRICE WITH ADDITION OF ECPS. INCREASES ARE BUDGET ESTIMATES AS PRICE HAS NOT BEEN NEGOTIATED.

FY96 UNIT COSTS ARE LOWER THAN FY97 UNIT COSTS DUE TO THE FOLLOWING FACTORS: 1.) BUYING FEWER QUANTITIES IN FY 97; AND 2.) CONTRACTOR'S PLANNED PRODUCTION FOR ALL CUSTOMERS IS HIGHER IN FY96 THAN FY97, PROVIDING LOWER OVERHEAD/G&A COSTS. THESE ARE OPTION PRICES IN A FIXED PRICE CONTRACT WHICH WAS BASED ON A COMPETITIVE ACQUISITION.

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
DD-COMPARI1092										PRODUCTION SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
OTHER PROCUREMENT: ARMY 3										TANK WEAPONS GUNNERY SIMULATION SYSTEM/																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
OTHER SUPPORT EQUIPMENT										PRECISION GUNNERY SYSTEM (TWGSSIPGS)										(MAD101)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
FACILITY NO		U I M R V		S E R V		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83	

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995																													
DD COMPRI1092										PRODUCTION SCHEDULE																																							
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																																							
OTHER PROCUREMENT: ARMY 3										TANK WEAPONS GUNNERY SIMULATION SYSTEM/																																							
OTHER SUPPORT EQUIPMENT										PRECISION GUNNERY SYSTEM (TWGSSIPGS)										(NAO101)																													
FACILITY NO		U S		PROGRAM QUANTITY						ACCEPT		BAL		FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99			A T E R																	
				FY 94	FY 95	FY 96	FY 97	FY 98	FY 99					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP												
5A	EA					268				154	112	22	22	22	23	23																																	
5B	EA					198				112	88	16	16	16	19	19																																	
5A	EA					228				0	228	A																																					
5B	EA					163				0	163	A																																					
TOTAL MONTHLY PRODUCTION											569	38	38	38	42	42	37																																
FACILITY NO		MANUFACTURERS NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX		ADMIN LEAD TIME		MANUFACTURING		TOTAL		REMARKS:																																			
						MINIMUM	1-45	MAXIMUM	PRIOR	AFTER	PRIOR	AFTER	1 OCT											1 OCT	1 OCT	AFTER 1 OCT																							
5		SAAB TRNG SYS, HUSKVARNA, SWEDEN	1	200	300																																												
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UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR)1092		P-1 ITEM NOMENCLATURE NSTD COMMAND AND CONTROL (NAO103)									
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY											
COST(IN MILLIONS)		9.4	3.0	4.8	6.0	.6	21.2	19.9	22.9		
<p>DESCRIPTION:</p> <p>CORPS BATTLE SIMULATION (CBS) IS A HANDS-ON SIMULATION WHICH SUPPORTS TRAINING OF A CORPS COMMANDER AND HIS BATTLE STAFF, MAJOR SUBORDINATE ELEMENTS HEADQUARTERS OF THE CORPS IN THE CONDUCT OF DEEP OPERATIONS AND AIR-LAND BATTLE. IT EXERCISES THE COMMAND AND STAFF SKILLS IN THE CONTROL OF JOINT OPERATIONS/TACTICAL FORCES, COMBINED ARMS FORCES, MANEUVER FORCES, AND THE COMBAT SERVICE SUPPORT SYSTEMS IN AN OPERATIONAL/TACTICAL ENVIRONMENT. IT CONSISTS OF A COMPUTER MODEL WHICH INTERFACES WITH EXERCISE CONTROLLERS AND ROLE PLAYERS VIA WORKSTATIONS. BRIGADE/BATTALION BATTLE SIMULATION (BBS) IS AN AUTOMATED SIMULATION TO TRAIN BRIGADE/BATTALION COMMANDERS AND STAFFS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN ON THE MODERN BATTLEFIELD. BATTALION/BRIGADE CPX AND COMMAND AND STAFF MODES WILL BE FIELDED AS WELL AS A BRIGADE SEMINAR MODE. JANUS IS AN AUTOMATED SIMULATION TO TRAIN THE COMPANY/PLATOON COMMANDERS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN IN CLOSE BATTLE. THE FY96/FY97 PROGRAM WILL BEGIN THE PRODUCTION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) WHICH CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATIONS.</p> <p>JUSTIFICATION:</p> <p>AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT AND COMBAT SUPPORT FUNCTIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BATTLE PROJECTION CENTERS AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.</p>											
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T								DATE FEBRUARY 1995
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)								(NAO103)
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 1	
QUANTITY										
COST(IN MILLIONS)				4.3	6.0					
<p>DESCRIPTION: THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATION. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS NOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DOES NOT DISCERN THE PRESENCE OF THE COMPUTERS MODEL DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT TRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED.</p> <p>JUSTIFICATION: AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT AND COMBAT SUPPORT FUNCTIONS. MANY COMBAT BATTLE SIMULATIONS HAVE BEEN DELIVERED TO TRAIN COMMANDERS AT VARIOUS LEVELS. FEW SIMULATION DEVICES HAVE BEEN DEVELOPED TO SPECIFICALLY FILL THE LOGISTICS TRAINING NEEDS. THE CSSTSS WILL PROVIDE THE TRAINING NECESSARY TO DO THE BEHIND THE LINES LOGISTICS FUNCTIONS ADDRESSING MEDICAL, SUPPLY, PERSONNEL, TRANSPORTATION, MAINTENANCE, AMMUNITION, PETROLEUM, OIL, LUBRICANTS, AND OTHERS. LINKING THE COMBAT FUNCTIONS (CORPS BATTLE SIMULATION) TO COMBAT SERVICE SUPPORT FUNCTIONS (CSSTSS) WILL PROVIDE A REAL TIME INTERACTIVE ENVIRONMENT TO ACTIVE TRAINING OBJECTIVES IN THE NEW FORCE PROJECTION ARMY. BENEFITS WILL BE REALIZED IN LOUISIANA MANEUVERS, ANNUAL LOGISTICS EXERCISES, AND SCHEDULED EXERCISES AT CORPS, RESERVE UNITS AND OTHER LOCATIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BATTLE PROJECTION CENTERS (BPC'S) AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97, AT THE SAME CORPS SITES.</p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST				Page of		Pages		
		ITEM NO 156 PAGE NO 38 OF 65						EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												
Weapon System Cost Elements		Ident. Code	CSSTSS (NA0103)		A. Appropriation/Budget OTHER PROCUREMENT ARMY: ARMY OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME UNKNOWN		D. DATE FEBRUARY 1995	
			FY 94 Unit Cost	Qty Total Cost	CY 95 Unit Cost	Qty Total Cost	BY1 96 Unit Cost	Qty Total Cost	BY2 97 Unit Cost	Qty Total Cost		
1. COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) HARDWARE SUITE		B										
A. FULL HARDWARE SUITE - MAINFRAME PLUS 39 WORKSTATIONS							11000	3 / 3300	11000	2 / 2200		
B. AUGMENTATION EQUIPMENT (ALL SITES ALREADY HAVE HARDWARE)							255750	4 / 1023	713000	2 / **1426		
C. PARTIAL SUITES - (REMOTE SITES WITHOUT HARDWARE - NO MAINFRAME WORKSTATIONS AND AUX EQUIP)									800000	3 / 2400		
** OCONUS COSTS INCREASE DUE TO SHIPPING AND SITE PREPARATION												
											4323	6026

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT ARMY: ARMY 3							C. P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)				A. DATE FEBRUARY 1995	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
A CSSTSS/FY96	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Apr-96	Aug-96	3	11000	NO		Oct-95		
A CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Mar-97	2	11000	NO		Oct-95		
B CSSTSS/FY96	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-95	Jan-96	4	255750	NO		Oct-95		
B CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Nov-96	DEC 96	2	713000	NO		Oct-95		
D. REMARKS												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE			COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)				(NA0103)	
OTHER PROCUREMENT ARMY: ARMY 3			OTHER SUPPORT EQUIPMENT								
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
C CSSTSS/FY97	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-96	Apr-97	3	800000	NO		Oct-95	
D. REMARKS											

CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) (NA0103)		
CURRENT DEVELOPMENT AND TEST STATUS				
SCHEDULE DATE				
CURRENT		LAST REPORTED		REASON FOR DELAY
JUN 95 AUG 95 NOV 95 OCT 95		MAR 95 MAR 95 AUG 95 OCT 95		RESOLUTION OF TECHNICAL DIFFICULTIES RESOLUTION OF TECHNICAL DIFFICULTIES OTP LATE: RESOURCE AVAILABILITY
DEV TEST & EVAL (OT&E) PLAN/ACTUAL INITIAL OPER TEST & EVAL (IOT&E) PLAN/ACTUAL OPER TEST & EVAL (OT&E) PLAN/ACTUAL AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS				
ESTIMATED DATE OF APPROVAL FOR SERVICE USE SPECIAL IPR FOR INITIAL HARDWARE PROCUREMENT / AUG 95 (AFTER BLOCK I TEST)				
EQUIPMENT ITEM(S) TO BE REPLACED FORT LEE (CASCOM) ASSULT MODEL (RENAMED CSSTSS 1.0)				
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED MORE CURRENT HARDWARE AND SOFTWARE, DOCUMENTATION IMBEDDED TRAINING CAPABILITY, GRAPHICS ADDED.				
DEVELOPMENT CONTRACT INFORMATION				
RT&E FUNDING PROFILE (\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	BY1
SAIC	ORLANDO, FL	CSSTSS 2.0	15.564	3.919
			5.692	
TOTAL RT&E FUNDING			15.564	3.919
REMARKS FY96 FUNDS ARE FOR SOFTWARE MAINTENANCE POST DELIVERY MODIFICATIONS TO ACCOMMODATE CHANGES.				
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[illegible]

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET						DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE RANGE TARGETRY (NA0105)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST(IN MILLIONS)	16.8	10.6	13.1	13.1	13.2	13.2	17.9	21.0	
DESCRIPTION: THE REMOTE TARGET SYSTEM (RETS) CONSISTS OF RANGES WITH STATIONARY AND MOVING INFANTRY AND ARMOR TARGETS THAT PORTRAY REALISTIC OPPOSING THREAT USING SIMULATED BATTLEFIELD CONDITIONS. RETS CONSISTS OF MANY COMPONENTS THAT ARE TAILORED TO 14 DIFFERENT RANGE CONFIGURATIONS. RANGE DESIGNS PROVIDE TRAINING FOR BASIC AND ADVANCED RIFLE MARKSMANSHIP AND COMBINED ARMS TRAINING OF M1 TANK AND BRADLEY FIGHTING VEHICLES (M2 IFV/M3 CFV), AERIAL GUNNERY, COBRA, AND APACHE ATTACK HELICOPTER, ADA, AND VULCAN.									
JUSTIFICATION: RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT.									
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 156 PAGE NO 44 OF 65				UNCLASSIFIED		Page of Pages EXHIBIT P-40	

UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR)1092		P-1 ITEM NOMENCLATURE RANGE TARGETRY								(NAO105)	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1		
QUANTITY											
COST(IN MILLIONS)		8.6	9.6	13.1	13.1	13.1	13.2	12.9		12.9	
<p>DESCRIPTION:</p> <p>THE REMOTE TARGETING SYSTEM (RETS) CONSISTS OF RANGES THAT INCORPORATE INFANTRY AND ARMOR TARGETS, BOTH STATIONARY AND MOVING, THAT PORTRAY A REALISTIC OPPOSING TARGET THREAT TO THE AMERICAN SOLDIER USING SIMULATED BATTLEFIELD CONDITIONS. RETS FACILITATES TRAINING IN DETECTION, IDENTIFICATION, RAPID ENGAGEMENT AND PROPER LEADING OF MOVING TARGETS UNDER DAY/NIGHT CONDITIONS, ALL OF WHICH WILL BE REQUIRED IN A FAST-MOVING WAR. WITHOUT THIS TRAINING, THE AMERICAN SOLDIER WILL BE ILL-PREPARED FOR COMBAT. THE QUANTITIES OF EACH COMPONENT ARE TAILORED TO THE RANGE CONFIGURATION OF WHICH THERE ARE CURRENTLY 14 DIFFERENT TYPES. RANGE DESIGNS PROVIDE TRAINING FOR THE BASIC AND ADVANCED RIFLE MARKSMANSHIP PROGRAMS AND COMBINED ARMS TRAINING OF M1 TANK AND BRADLEY FIGHTING VEHICLES (M2 IFV/M3 CFV), AERIAL GUNNERY, COBRA AND APACHE ATTACK HELICOPTER, AND VULCAN. THE RETS RANGE IS OPERATED BY AN OPERATOR-PROGRAMMER VIA A COMPUTER-CONTROLLED CONSOLE LOCATED IN THE RANGE TOWER.</p> <p>JUSTIFICATION:</p> <p>RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT. RETS SUPPORTS TRAINING FOR THE ARMY'S MAJOR ARMOR/INFANTRY WEAPON SYSTEMS, SUCH AS M1 AND M60 TANKS, BRADLEY FIGHTING VEHICLE, HELICOPTER GUNNERY, TOW MISSILE, ALL INFANTRY RIFLE MARKSMANSHIP TRAINING AND ALL MACHINE GUN TRAINING. AUTOMATED TARGETRY CONTROL AND SCORING SIGNIFICANTLY REDUCES TRAINING TIME ALLOWING MORE UNITS TO UTILIZE THE RANGE. RETS IS THE ONLY LIVE-FIRE TRAINING SYSTEM WHICH ALLOWS COMBAT UNITS TO BE ADEQUATELY TRAINED IN A SIMULATED COMBAT ENVIRONMENT. RETS SUPPORTS ALL INDIVIDUAL AND UNIT TRAINING AND QUALIFICATION, AS WELL AS COMBINED ARMS TRAINING EXERCISES.</p>											
DD Form 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages		EXHIBIT P-40	
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**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)
Remote Targeting System (NAO105)**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					(NA0105)	
Other Procurement: Army 3					Remote Targeting System (RETS)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
A. RCSA/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	1	34361	YES	NO		
RCSA/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	2	34361	YES	NO		
RCSA/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 96	2	34361	YES	NO		
RCSA/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	May 97	1	17452	YES	NO		
RCSA/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	34361	YES	NO		
RCSA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	3	17452	YES	NO		
B. RCSI/ FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	1	22578	YES	NO		
RCSI/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	8	22578	YES	NO		
RCSI/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 96	8	22578	YES	NO		
RCSI/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	8	22578	YES	NO		
RCSI/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	1	15819	YES	NO		
C. ITM/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	252	2161	YES	NO		
ITM/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	262	2161	YES	NO		
ITM/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Sep 96	349	1479	YES	NO		
ITM/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	250	2161	YES	NO		
ITM/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1644	1479	YES	NO		
ITM/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	200	2161	YES	NO		
ITM/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	1476	1479	YES	NO		
D. IHFS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	2	4071	YES	NO		
IHFS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	2	4071	YES	NO		
IHFS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jun 96	70	1798	YES	NO		
IHFS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Mar 97	2	4071	YES	NO		
IHFS/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Mar 97	5	1798	YES	NO		
IHFS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	4071	YES	NO		

D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	February 1995
B. APPROPRIATION/BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
Other Procurement: Army 3										Remote Targeting System (RETS)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQ'D	IF YES, WHEN AVAILABLE	(NA0105)
E. LPJB/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep-94	Mar-96	797	871	YES	NO		
LPJB/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Sep 96	588	871	YES	NO		
LPJB/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Nov 96	266	657	YES	NO		
LPJB/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	350	871	YES	NO		
LPJB/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1193	657	YES	NO		
LPJB/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Jun 97	200	871	YES	NO		
LPJB/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Jul 97	1565	657	YES	NO		
F. IMTC/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	6	13213	YES	NO		
IMTC/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	May 96	5	13213	YES	NO		
IMTC/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jun 96	41	5690	YES	NO		
IMTC/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	5	13213	YES	NO		
IMTC/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	27	5690	YES	NO		
IMTC/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	5	13213	YES	NO		
IMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Aug 97	40	5690	YES	NO		
G. HPJB/FY94	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Dec 95	6	2000	YES	NO		
HPJB/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Mar 96	5	2000	YES	NO		
HPJB/FY96	UNKNOWN	OPTION	ACALA, Rock Island, IL	Mar 95	Apr 96	21	2000	YES	NO		
HPJB/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Sep 97	45	2174	YES	NO		
H. INMFS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	25	635	YES	NO		
INMFS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	94	635	YES	NO		
INMFS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Sep 96	412	374	YES	NO		
INMFS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Mar 97	25	635	YES	NO		
INMFS/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Mar 97	143	374	YES	NO		
INMFS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	15	635	YES	NO		
INMFS/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep-97	29	374	YES	NO		

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE
February 1995

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					(NA0105)	
Other Procurement: Army 3					Remote Targeting System (RETS)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
I. DTA/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	500	561	YES	NO		
DTA/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Apr 96	200	561	YES	NO		
DTA/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	88	561	YES	NO		
DTA/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	253	450	YES	NO		
DTA/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	50	561	YES	NO		
DTA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	214	450	YES	NO		
J. AMTC/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	7	91209	YES	NO		
AMTC/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	May 96	10	91209	YES	NO		
AMTC/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Aug 96	9	91209	YES	NO		
AMTC/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	5	91209	YES	NO		
AMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Oct 97	11	61344	YES	NO		
K. THMTG/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Jul 95	Oct 96	124	6332	YES	NO		
THMTG/FY96	UNKNOWN	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	30	6332	YES	NO		
THMTG/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Aug 97	80	6332	YES	NO		
L. TIU/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	10	2731	YES	NO		
TIU/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	30	2731	YES	NO		
TIU/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	21	2731	YES	NO		
TIU/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	10	2731	YES	NO		
M. ATKS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	173	2096	YES	NO		
ATKS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jun 96	119	2096	YES	NO		
ATKS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jul 96	21	1734	YES	NO		
ATKS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	350	2096	YES	NO		
ATKS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	24	2096	YES	NO		

D. REMARKS

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Previous editions are obsolete

P-1 SHOPPING LIST

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3				Other Support Equipment			C. P-1 ITEM NOMENCLATURE Remote Targeting System (RETS) (NA0105)				
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
N. 3D TGT/FY94 3D TGT/FY96 3D TGT/FY97	RIDDLE COR RIDDLE COR RIDDLE COR	C/FFP C/FFP OPTION	ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL	Aug 94 Dec 95 Dec 96	Apr 95 May 96 May 97	500 940 1742	9 9 10	YES YES YES	NO NO NO		
O. MOD/FY94 MOD/FY95 MOD/FY96 MOD/FY97	UNISYS UNISYS UNISYS UNISYS	C/FFM-5(1) C/FFM-5(2) C/FFM-5(3) C/FFM-5(4)	ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL	Sep 94 Feb 95 Dec 95 Dec 96	Mar 96 Aug 96 Nov 96 Sep 97	36 20 4 4	442 442 442 442	YES YES YES YES	NO NO NO NO		
P. RMOD/FY94 RMOD/FY95 RMOD/FY96 RMOD/FY97	UNISYS UNISYS UNISYS UNISYS	C/FFM-5(1) C/FFM-5(2) C/FFM-5(3) C/FFM-5(4)	ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL	Sep 94 Feb 95 Dec 95 Dec 96	Mar 96 Aug 96 Nov 96 Sep 97	3 5 5 5	4096 4096 4096 4096	YES YES YES YES	NO NO NO NO		
Q. AAO/FY94 AAO/FY95 AAO/FY96 AAO/FY97	UNISYS UNISYS UNISYS UNISYS	C/FFM-5(1) C/FFM-5(2) C/FFM-5(3) C/FFM-5(4)	ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL ACALA, Rock Island, IL	Sep 94 Feb 95 Dec 95 Dec 96	Mar 96 Apr 96 Sep 96 Sep 97	3 3 3 3	9024 9024 9024 9024	YES YES YES YES	NO NO NO NO		
D. REMARKS											

[illegible]

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995																																							
DD-COMP(AR)1092										UNCLASSIFIED										DATE FEBRUARY 1995																																							
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE										(HA0105)																																							
Other Procurement: Army 3										RANGE TARGETRY																																																	
Other Support Equipment																																																											
PRODUCTION SCHEDULE										FISCAL YEAR 95										FISCAL YEAR 96										FISCAL YEAR 97																													
PROGRAM QUANTITY										CALENDAR YEAR 95										CALENDAR YEAR 96										CALENDAR YEAR 97																													
S										ACCEPT										BAL										L																													
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FY 93										FY 94										FY 95										FY 96										FY 97										FY 98									
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FY 10										FY 11										FY 12										FY 13										FY 14										FY 15									
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FY 29										FY 30										FY 31										FY 32										FY 33										FY 34									
FY 30										FY 31										FY 32										FY 33										FY 34										FY 35									
FY 31										FY																																																	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE NSTD FIRE SUPPORT-AIR DEFENSE (NAO106)								
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01		
QUANTITY										
COST(IN MILLIONS)	31.5	13.7	3.3	16.9	1.5			8.7		
DESCRIPTION: THE GUARD UNIT ARMORY DEVICE FOR FULL CREW INTERACTIVE SIMULATION TRAINING - ARTILLERY (GUARDFIST II) IS AN INTERACTIVE VIDEO DISC DISPLAY SYSTEM THAT TRAINS THE FORWARD OBSERVER (FO) IN A STAND-ALONE OR TOGETHER WITH THE FIRE DIRECTION CENTER (FDC) AND THE HOWITZER CREW IN AN INTERACTIVE MODE. GUARDFIST II TRAINS THE FO IN TARGET IDENTIFICATION AND CALL-FOR-FIRE, PROVIDES FDC PERSONNEL EXERCISE IN COMMUNICATIONS AND COMPUTING TARGETS AND EXERCISES HOWITZER CREWS IN SETTING AZIMUTH AND ELEVATION. THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAFE-RF) PORTRAYS THE EFFECTS OF FRIENDLY AND HOSTILE INDIRECT FIRE, MORTARS, MINES AND NON-PERSISTENT CHEMICAL CONTAMINATION. THIS SYSTEM WILL BE FIELDED INITIALLY TO THE THREE COMBAT TRAINING CENTERS (CTC) FOR FORCE-ON-FORCE TRAINING. SAME-RF COMBINES RADIO FREQUENCY AND GLOBAL POSITIONING SYSTEM TECHNOLOGIES TO PERFORM REALTIME, OBJECTIVE CASUALTY ASSESSMENT ON EQUIPPED SOLDIERS AND VEHICLES WITHIN THE APPROPRIATE HIT/NEAR MISS AREAS.										
JUSTIFICATION: FY 96 FUNDS ARE REQUIRED TO AWARD CONTRACT OF SAME-RF TO PROVIDE INSTRUMENTATION REQUIRED AT THE NATIONAL TRAINING CENTER (NTC) AND THE JOINT READINESS TRAINING CENTER (JRTC). FY 97 FUNDS PROVIDE INITIAL SPARES AND REQUIRED ENGINEERING CHANGE PROPOSALS.										
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 156 PAGE NO 57 OF 65			UNCLASSIFIED		Page of Pages EXHIBIT P-40			

REPORTS CONTROL SYMBOL DD-COM(ARI)1082		UNCLASSIFIED		DATE FEBRUARY 1995				
BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)						
		(NA0106)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	29.5	9.4	3.3	16.9				
DESCRIPTION: THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTC) TO SUPPORT FORCE-ON-FORCE TRAINING. BOTH SIDES, BLUEFOR AND OPFOR, ARE EQUIPPED WITH THESE TRAINING DEVICES. FY95 MARKS THE END OF THE BASELINE PRODUCTION CONTRACT, WITH ENGINEERING CHANGE PROPOSAL DELIVERIES ENDING IN FY96. FY96 ESTABLISHES THE REPROCUREMENT PROCESS TO COMPLETE THE BUYOUT OF MINIMUM ESSENTIAL DEVICE QUANTITIES FOR TRAINING AT THE CTC'S. THE DEVICE REPROCUREMENT WILL BE CONDUCTED UNDER RULES OF FULL AND OPEN COMPETITION. THIS FOLLOW-ON CONTRACT INCLUDES HARDWARE BUYS OF THE PLAYER DETECTION DEVICES (PDD) (RECONFIGURED TO TAKE ADVANTAGE OF MATURING TECHNOLOGIES AND ERGONOMICS); MITS KITS TO INSTRUMENT UNIT ADMIN/LOGISTICS VEHICLES AND FIXED TARGETS; AUDIOVISUAL CUE DEVICES FOR WEAPONS SYSTEMS, CHEMICAL AGENT ALARM SETS; AND VEHICLE DETECTION DEVICES (VDD) FOR UNIT COMBAT VEHICLES.								
JUSTIFICATION: SINCE FY91 THE SAWE-RF AND MILES II PROCUREMENT PROGRAMS HAVE BEEN INTEGRATED TO SUPPORT COMBINED TACTICAL ENGAGEMENT SIMULATION AND CASUALTY ASSESSMENT INSTRUMENTATION REQUIRED TO SUSTAIN REALISTIC FORCE-ON-FORCE TRAINING EXERCISES AT THE THE THREE MANEUVER COMBAT TRAINING CENTERS (CTC). SOLDIER FIGHTING SKILLS ARE HONED IN A REALISTIC COMBAT ENVIRONMENT AND LEARNING IS ENHANCED BY THE EFFECT OF INSIGHTFUL AFTER ACTION REVIEWS (AAR) USING GRAPHIC AND NUMERIC DATA RECORDED BY THE SAWE/MILES II DEVICES. FAILURE TO FUND THIS PROCUREMENT WILL RENDER NONOPERATIONAL THE INSTRUMENTATION SYSTEMS AT NTC AND JRTC (DELIVERED UNDER SEPARATE PROCUREMENT ACTIONS). THIS WILL ADVERSELY AFFECT ARMY AND AIR FORCE COMBAT READINESS.								
DD Form 2454, JUL 88		P-1 SHOPPING LIST		UNCLASSIFIED		Page of Pages		EXHIBIT P-40
ITEM NO 156		PAGE NO 58		OF 65				

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) (NAO106)				A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3		B. WEAPON MODEL/SERIES/POPULAR NAME		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION		D. DATE MONTH/YEAR FEBRUARY 1995	
WEAPONS SYSTEM COST ELEMENTS	IDENT. CODE	FY 94		CY 95		QTY		BY1 96		BY2 97	
		UNIT COST		UNIT COST		TOTAL COST		UNIT COST		TOTAL COST	
2. SIMULATED AREA WEAPONS EFFECTS RADIO FREQUENCY (REPROCUREMENT)	A										
A. VEHICLE DETECTION DEVICE (VDD)								75000	6	21554	52 1121
B. MULTIPLE INTEGRATED TARGET SYS (MITS)								60000	3	16482	200 3296
C. M8A1 CHEMICAL AGENT ALARM UNIT								60000	3	19018	120 2282
D. PLAYER DETECTION DEVICE (PDD)										100000	50 5000
E. MINE EFFECTS SIMULATOR (ANTI-TANK)								10000	25	250	250
F. MINE EFFECTS SIMULATOR (ANTI-PERSONNEL)								10000	25	250	380 380
G. PRODUCTION TESTING										418	850
H. ENGINEERING SUPPORT IN-HOUSE GOVERNMENT OTHER GOVERNMENT AGENCIES										572 604	400 473
I. INTERIM CONTRACTOR LOGISTICS SUPPORT										150	1500
J. ENGINEERING CHANGE PROPOSALS										202	1585
										3256	16887

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)								(NAO106)	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
1. SAWE-RF											
A. VDD/FY91	LORAL POMONA, CA	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 91	OCT 94	980	12900	YES	NO		
A. VDD/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	FEB 95	597	16166	YES	NO		
B. MITS/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	DEC 94	724	9845	YES	NO		
B. MITS/FY93	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 92	MAY 95	192	9382	YES	NO		
B. MITS/FY94	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUL 94	JUN 95	795	13000	YES	NO		
D. PDD/FY91	LORAL POMONA, CA	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	SEP 91	DEC 94	2408	7648	YES	NO		
D. PDD/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	MAY 95	1558	7664	YES	NO		
D. PDD/FY93	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	DEC 92	JUL 95	914	7251	YES	NO		
D. PDD/FY94	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAR 94	AUG 95	1200	9742	YES	NO		
E. MES (AT)/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	NOV 94	33000	65	YES	NO		
F. MES (AP)/FY92	LORAL POMONA, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	OCT 91	NOV 94	27000	65	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF)

(NA0106)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
2. SAWE-RF (REPROCUREMENT)										
A. VDD/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	6	75000	YES	NO	
A. VDD/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	52	21554	YES	NO	
B. MITS/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	3	60000	YES	NO	
B. MITS/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	200	16482	YES	NO	
C. M8A1/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	3	60000	YES	NO	
C. M8A1/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	120	19018	YES	NO	
D. PDD/FY97	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	50	100000	YES	NO	
E. MES-AI/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	25	10000	YES	NO	
F. MES-API/FY96	TBD	FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	25	10000	YES	NO	
F. MES-API/FY97	TBD	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96	NOV 97	3800	100	YES	NO	

D. REMARKS

FY96/FY97 ITEMS ARE BEING PROCURED UNDER A NEW COMPETITIVE CONTRACT.

[illegible]

[illegible]

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation/P-1 Line Item		Weapons System (If applicable)				Equipment Nomenclature			PE		
OPA 3 TRAINING DEVICES, NON-SYSTEM						NA0101 MILES 2000			644715		
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	0	12.4	16.5	38.5	34.0	36.8	45.9	58.2	242.3		
RDT&E	1.0	0	0	0.9	3.0	3.0	5.0	5.0	17.9		
O&S	24.9	25.7	25.8	21.3	21.3	21.3	21.3	21.3	182.9		

TRAINING SYSTEM DESCRIPTION:

REPLACEMENT ITEMS FOR CURRENT MILES DEVICES WHICH ARE BECOMING UNSUPPORTABLE AND UNRELIABLE DUE TO AGE. MILES IS A LASER-BASED ENGAGEMENT TRAINING SYSTEM WHICH ENCOMPASSES MAN-WORN, CREW-SERVED AND COMBAT VEHICLE SYSTEMS. PROJECTED INITIAL OPERATIONAL CAPABILITY (IOC) IS 1ST QUARTER FY96.

P-1 SHOP LIST ITEM NO.	156 A	PAGE NO.	1a	EXHIBIT-43, PAGE 1 of 6 P-43 Simulator & Training Device Justification
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[illegible]

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995					
Training Device by Type										Weapon System (if applicable)							
OPA 3 NSTD																	
Description/Justification																	
NA0101 GUARDFIST I																	
Financial Plan	Prior Years			Current Year			Budget Year 1			Budget Year 2			Cost to Complete		Total Cost		
	Qty	Cost		Qty	Cost		Qty	Cost		Qty	Cost		Qty	Cost			
HARDWARE COSTS																	
Device (Hardware)	31	10735		21	5820		44	8738		28	5375						
ECOs					227			242			297						
Nonrecurring																	
GFE																	
Other (Specify)	527	200		357	135		748	284		476	181						
TRANSIT CASES																	
Total Hardware Costs		10935			6182			9264			5853						
SUPPORT COSTS																	
Special SE																	
Integrated Logistics Support		61															
Other (Specify) SUPPORT		373			263			236			271						
ENGINEERING SPT		699			221						190						
PROD TESTING		480															
Total Support Costs		1613			484			236			461						
Software/Courseware																	
TOTAL COSTS		12548			6666			9500			6314						
P-1 SHOP LIST ITEM NO.							PAGE NO.							EXHIBIT-43, PAGE 3 of 6			
							156 A							9a			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation P-1 Line Item		Weapons System (if applicable)				Equipment Nomenclature				PE	
OPA 3 TRAINING DEVICES, NON-SYSTEM		CURRENT FY	BY1	BY2	BY2 + 1	NA0101 TWGSSIPGS				644715	
Fin Plan	Prior Years					BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	15.9	11.9	24.3	21.9	22.0	20.0	11.0			127.0	
RDT&E											
O&S	0.2		1.2	1.5	2.2	2.7	3.1	3.1		14.0	

TRAINING SYSTEM DESCRIPTION:

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND SIMULATES BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO HIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSSIPGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILTCANT AND DEFILADE CONDITION TO DETERMINE TARGET VULNERABILITY.

TWGSSIPGS IMPROVES CREWGUNNER'S ABILITY TO RELOCATE ENEMY TANKS BY RELOCATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL AND ANGLE OF KILL WHEN ASSESSING TARGET HITS WITHOUT THIS SYSTEM. UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSSIPGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP FOR THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THIS PROBLEM OF LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSSIPGS WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMED RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LIA, MIA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSSIPGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND PROVIDE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSSIPGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY CAPABILITY ANYTIME, ANYWHERE.

P-1 SHOP LIST ITEM NO.	156 A	PAGE NO.		EXHIBIT-43, PAGE 1 of 6	
		10a		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 NSTD													
Description/Justification													
NA0101 TWGSS/PGS													
Financial Plan	Prior Years			Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)	63	11026	189	11831	484	24170	391	21703					
ECOs		612		60		73		101					
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs		11638		11891		24243		21804					
SUPPORT COSTS													
Special SE													
Integrated Logistics Support		1081											
Other (Specify) CNTR ENG SPT		612				52		52					
PROD TESTING/SPT		2587											
Total Support Costs		4280				52		52					
Software/Courseware													
TOTAL COSTS		15918		11891		24295		21858					
				P-1 SHOP LIST ITEM NO.		PAGE NO.		EXHIBIT-43, PAGE 3 of 6					
				156 A		12a							

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	February 1995
Appropriation/P-1 Line Item		Weapon System (if applicable)				Equipment Nomenclature			PE		
OPA 3 NON-SYSTEM TRAINING DEVICES						CSSTSS				844715	
Fia Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total		
Quantity											
Proc	0	0	4.4	0.2	0.8	0	0	1	12.2		
RDT&E	21.8	5.7	3.9	3	3	3	4	4	48.4		
O&S											

TRAINING SYSTEM DESCRIPTION:

THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATIONS. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS NOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DOES NOT DISCERN THE PRESENCE OF THE COMPUTERS MODEL DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT TRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR 3 BCP'S AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.

	P-1 SHOPP LIST ITEM NO.	PAGE NO.
	156 A	13a

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)										Date	FEBRUARY 1996	
Appropriation P-1 Line Item		OPA 3		Weapon System (if applicable)			IOC Date		Equipment Nomenclature			PE
NON-SYSTEM TRAINING DEVICES										CSSTSS		644715
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
CSSTSS	75TH DIV HOUSTON, TX	Aug-96	Sep-96						1	1100		
CSSTSS	78TH DIV EDISON, NJ	Aug-96	Sep-96						1	1100		
CSSTSS	85TH DIV ARLINGTON HEIGHTS	Aug-96	Sep-96						1	1100		
CSSTSS	I CORPS FT LEWIS	Jan-96	Feb-96						1	257		
CSSTSS	III CORPS FT HOOD	Feb-96	Mar-96						1	257		
CSSTSS	V CORPS FRANKFURT, GE	Mar-96	Apr-96						1	257		
CSSTSS	XVIII CORPS FT BRAGG	Apr-96	May-96						1	257		
CSSTSS	87TH DIV BIRMINGHAM, AL	Mar-97	Apr-97								1	1100
CSSTSS	91ST DIV CAMP DRAKE, CA	Mar-97	Apr-97								1	1100
CSSTSS	21 TAACOM KAISERSLAUTEN, GE	Mar-97	Apr-97								1	713
CSSTSS	EUSA SEOUL KOREA	Mar-97	Apr-97								1	713
CSSTSS	AMMED FT SAM, TX	Apr-97	May-97								1	800
CSSTSS	USASSC FT BEN HARRISON, IN	Apr-97	May-97								1	800
					PAGE NO.		156 A		14a		EXHIBIT P-43, Page 2 of 8	

[illegible]

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)										DATE		FEBRUARY 1995	
Training Device by Type		OPA 3		Weapon System (if applicable)									
Description/Justification		NON-SYSTEM TRAINING DEVICES											
NA0103		CSSTSS											
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)					7	4323	7	6026					
ECOs													
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs						4323		6026					
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
Other (Specify)													
Total Support Costs													
Software/Courseware													
TOTAL COSTS						4323		6026					
		P-1 SUMMARY LIST ITEM NO.		158 A		PAGE NO.		16a		EXHIBIT P-43, Page 3 of 8			

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995
Appropriation/P-1 Line Item			Weapons System (if applicable)				Equipment Nomenclature			PE	
OPA 3 TRAINING DEVICES, NON-SYSTEM							NAO106 SAWE/MILES II			644715	
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL		
Quantity											
Proc	123.2	9.4	3.3	18.9					152.8		
RD&E	3.1		2.8						5.7		
O&S		2.8	3.5	0.5	0.2	0.2	0.2	0.2	7.6		
TRAINING SYSTEM DESCRIPTION: THE SIMULATED AREA WEAPONS EFFECT-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTCs) TO SUPPORT FORCE-ON-FORCE TRAINING.											
			P-1 SHOP LIST ITEM NO.		156A		PAGE NO.		17a		
EXHIBIT 43, PAGE 1 of 6 P-43 Simulator & Training Device Justification											

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)			IOC Date		Equipment Memorandum			PE			
OPA 3 NSTD					1QFY94		NA0108 SAWE/MILES II			844715			
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2		
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
VDD/MITS/M8A1	CTC	1QFY94 *	1QFY94 *	N/A	2823	36902			62	1310	4172	7079	
PDD	CTC	1QFY94 *	1QFY94 *	N/A	6689	55679					50	5000	
OTHER PROG COSTS						29508		9445		2042		4805	
AV CUE					1925	1152							
					* ABOVE DATES OF 1QFY94 ARE FOR OLD CONTRACT								
					DATES FOR NEW CONTRACT ARE 1QFY97								

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)												Date	FEBRUARY 1995
Training Device by Type												Weapon System (if applicable)	
OPA 3 NSTD													
Description/Justification													
NA1018 SAWE/MILES II													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)	11437	93733			62	1310	4222	12079					
ECOs				5400		202		1585					
Nonrecurring													
GFE													
Other (Specify)													
Total Hardware Costs		93733		5400		1512		13664					
SUPPORT COSTS													
Special SE													
Integrated Logistics Support						150		1500					
Other (Specify)		29048		4045		1690		1723					
Total Support Costs		29048		4045		1840		3223					
Software/Courseware													
TOTAL COSTS		122781		9445		3352		16887					
		P-1 SHOP LIST ITEM NO.		156 A		PAGE NO. ,							
												EXHIBIT-43, PAGE 3 of 6	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET										DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE CLOSE COMBAT TACTICAL TRAINER (CCTT)										(NAO170)	
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1					
COST(IN MILLIONS)	7.1 *	31.8	30.7	88.5	98.5	109.7	27.1	15.8					
DESCRIPTION: CLOSE COMBAT TACTICAL TRAINER (CCTT) WILL BE A NETWORKED SYSTEM OF MANNED SIMULATORS (TANK, BRADLEY, FIST-V, HIMMAY, M113A3) SUPPORTED BY EMULATORS AND SEMI-AUTOMATED FORCES THAT PROVIDE COMBAT SUPPORT, COMBAT SERVICE SUPPORT AND BOTH FRIENDLY AND OPPOSING FORCES. IT WILL TRAIN CREW THROUGH BATTALION LEVEL COMBAT ELEMENTS OF CLOSE COMBAT UNITS OF BOTH THE RESERVE COMPONENT (RC) AND ACTIVE COMPONENT (AC) IN THEIR COLLECTIVE TASKS AS DEFINED IN THE MISSION TRAINING PLAN (MTP) FOR THOSE UNITS. THE ARMY WILL FIELD 546 SIMULATORS TO TWELVE FIXED COMPANY LEVEL SYSTEMS AND TWENTY-ONE MOBILE PLATOON-LEVEL SYSTEMS. EACH FIXED SYSTEM WILL CONTAIN A MAXIMUM OF THIRTY-EIGHT SIMULATOR MODULES, IS BASED ON THE LOCATIONS OF AC DIVISIONS AND REGIMENTS, AND WILL SERVICE BOTH AC AND RC UNITS. THE MOBILE PLATOON SYSTEMS CONTAIN FOUR SIMULATOR MODULES IN THE TANK PLATOON VERSION AND SEVEN SIMULATOR MODULES IN THE INFANTRY/CAVALRY PLATOON VERSION. DEDICATED TO THE RESERVE COMPONENTS, THESE MOBILE SITES WILL BE BASED OUT OF ACTIVE COMPONENT INSTALLATION TRAINING SUPPORT CENTERS (TSC'S) BUT WILL TRAVEL TO RESERVE COMPONENT UNIT ARMORIES FOR TRAINING AT HOME STATION. EIGHT QUICKSTART SITES CONTAINING SIXTY-EIGHT TANK AND BRADLEY FIGHTING VEHICLE MODULES WILL BE FIELDED FROM LATE FY95 THROUGH FY96 INTO EXISTING SINNET FACILITIES AFTER ABBREVIATED TESTING AND ARMY LEVEL RELEASE. THE BALANCE OF THE PRODUCTION REQUIREMENT AMOUNTS TO 11 FIXED SITE SYSTEMS AND 19 MOBILE SITE SYSTEMS.													
JUSTIFICATION: QUICKSTART IS AN OPTION UNDER THE CCTT CONTRACT WHICH PROVIDES FOR THE EARLY PRODUCTION AND FIELDING OF COMMANDER POPPED-HATCH SIMULATORS INTO FIXED FACILITY SINNET-T SITES. THIS IS TWO YEARS PRIOR TO THE FIELDING OF THE OBJECTIVE CCTT SYSTEM. THE ACTIVE AND RESERVE COMPONENTS NEED THE CAPABILITY TO TRAIN THE TOTAL COMBINED ARMS FORCE ON A SIMULATED, FULLY INTERACTIVE REALTIME BATTLEFIELD. THE NEED IS TO TRAIN AND SUSTAIN COLLECTIVE (CREW THROUGH BATTALION) TASKS AND SKILLS IN COMMAND AND CONTROL, COMMUNICATIONS AND MANEUVER, AND TO INTEGRATE THE FUNCTIONS OF COMBAT SUPPORT AND OF COMBAT SERVICE SUPPORT UNITS. THIS IS IN RESPONSE TO URGENT TRAINING REQUIREMENT (UTR) FROM BOTH FORSCOM AND USAREUR TO REDRESS LACK OF TRAINING OPPORTUNITY FOR PLATOON MOVEMENT ROUTES. TWO ITEMS ARE NEEDED FOR THIS SOLUTION TO WORK: THESE QUICKSTART SIMULATORS WHICH WILL PROVIDE, WITH THEIR COMMANDER'S POPPED HATCH CAPABILITY, A BETTER VIEW OF THE ELECTRONIC BATTLEFIELD THAN IS AVAILABLE IN THE SINNET-T SIMULATOR MODULES, AND ALSO IMPROVED SINNET-T TERRAIN TO TRAIN ON. THE FY 96 FUNDS COMPLETE THE PROCUREMENT OF QUICKSTART MODULES. THE FY 97 FUNDS SUPPORT THE INITIAL PRODUCTION OF THE CCTT SYSTEM WITH THE PURCHASE OF 109 MODULES FOR FIXED SITE LOCATIONS AND 25 MOBILE MODULES.													
NOTE: FY94 FUNDING FROM NON-SYSTEMS TRAINING DEVICES (NAO100) PROVIDED LONG LEAD IMAGE GENERATOR COMPONENT SETS FOR 68 QUICKSTART MODULES.													

**WEAPON SYSTEM COST ANALYSIS
EXHIBIT (P-5)**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT ARMY: ARMY 3

OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

CLOSE COMBAT TACTICAL TRAINER (CCTT)

(NA0170)

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
A. QUICKSTART IMAGE GENERATOR COMPONENT SETS/ FY 94	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Mar-94	Jul-95	68	104000	YES		
B. QUICKSTART MODULES/FY95	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-94	Jul-95	34	859412	YES		
B. QUICKSTART MODULES/FY96	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-95	Mar-96	34	850824	YES		
C. FIXED SITE MODULES/FY97	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	May-97	Jul-98	109	545982	NO		Sep-95
D. MOBILE MODULES/FY97	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	May-97	Oct-98	25	1136600	NO		Sep-95

D. REMARKS

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P-1 SHOPPING LIST

Page 1 of 3 Pages

Previous editions are obsolete

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Exhibit P-5A Procurement History and Planning

CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995	REPORT CONTROL SYMBOL DD-COMP(AR)1092				
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE CLOSE COMBAT TACTICAL TRAINER (CCTT) (NAO170)					
CURRENT DEVELOPMENT AND TEST STATUS							
SCHEDULE DATE							
CURRENT		LAST REPORTED	REASON FOR DELAY				
MAY 96 APR 97		MAY 96 APR 97					
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE APR 97							
EQUIPMENT ITEM(S) TO BE REPLACED							
N/A							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED							
RT&E FUNDING PROFILE (\$ IN MILLIONS)							
DEVELOPMENT CONTRACT INFORMATION							
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
LORAL FEDERAL SYSTEMS COMPANY	ORLANDO, FL	CCTT	88.8	51.4		20.7	12.7
TOTAL RT&E FUNDING			88.8	51.4	59.5	20.7	12.7
REMARKS							
DD Form 2443, JUL 88		P-1 SHOPPING LIST ITEM NO 157 PAGE NO 4 OF 6		Page	of	Pages EXHIBIT P-19	

[illegible]

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)					Date				
Appropriation/P-T Line Item		Weapon System (if applicable)			February 1995				
OPA 3 CCTT					Equipment Nomenclature	NAUT70	PE		
					Close Combat Tactical Trainer (CCTT)				
Fin Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total
Quantity		34	34	134	159	136			497
Proc	7.1	31.8	30.7	88.5	98.5	109.7	27.1	15.8	409.2
RDT&E	88.8	51.4	59.5	20.7	3.1	3.2	3.2	3.2	233.1
O&S			0.4	5	7.5	13.2	13.2	13.2	52.5
TRAINING SYSTEM DESCRIPTION:									

Close Combat Tactical Trainer (CCTT) will be a networked system of manned simulators (Tank, Bradley, F15, HHMMWV, M113A3) supported by emulators and semi-automated forces that provide CS, CSS and both friendly and opposing forces. It will train crew through battalion level combat elements of Close Combat units of both the Reserve Component (RC) and Active Component (AC) in their collective tasks as defined in the Mission Training Plan (MTP) for those units. The Army will field 546 Simulators to twelve fixed company level systems and twenty-one Mobile Platoon-Level Systems. Each fixed system will contain a maximum of thirty-eight simulator modules, is based on the locations of AC Divisions and Regiments, and will service both AC and RC Units. The Mobile Platoon systems contain four simulator modules in the tank platoon version and seven simulator modules in the Infantry/Calvary Platoon version. Dedicated to the RC, these mobile sites will be based out of AC installation TASC's but will travel to RC unit armories for training at home stations.

P-1 SHOPP LIST ITEM NO.		PAGE NO.	EXHIBIT-43, Page 1 of 6	
157 A		1a	P-43 Simulator & Training Device Justification	

FEBRUARY 1995

DATE

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)

Training Device by Type

OPA 3

CCTT

Weapon System (if applicable)

Description/Justification

NA0100 Close Combat Tactical Trainer (CCTT)

Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS												
Device (Hardware)	0	7072	34	29220	34	28928	134	87927	295	207100	497	360247
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs		7072	34	29220	34	28928	134	87927	295	207100	497	360247
SUPPORT COSTS												
Special SE				2688		1727		593		1100		6008
Integrated Logistics Support										42900		42900
Other (Specify)												
Total Support Costs				2688		1727		593		44000		48908
Software/Courseware												
TOTAL COSTS		7072		31808		30655		88520		251100		409155

P-1 SHOPP LIST ITEM NO.

157 A

PAGE NO.

3a

EXHIBIT P-43, Page 3 of 8

REPORTS CONTROL SYMBOL DD-COM(ARI)1092		UNCLASSIFIED		DATE FEBRUARY 1995					
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		BUDGET ITEM JUSTIFICATION SHEET							
P-1 ITEM NOMENCLATURE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1 (NA0174)									
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (IN MILLIONS)				22.2	21.0	30.2	27.3	16.7	
DESCRIPTION: THE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) IS A TWO-PHASED EFFORT TO PROVIDE TRAINING OF THE FIELD ARTILLERY GUNNERY TEAM. FSCATT PHASE I WILL PROVIDE INDIVIDUAL AND CREW-LEVEL SKILLS TRAINING. FSCATT PHASE II WILL BE A COLLECTIVE TRAINER THAT SIMULATES FIRE SUPPORT WITHIN THE COMBINED ARMS TACTICAL TRAINER. THE GOAL OF FSCATT PHASE I IS TO EXERCISE THE GUNNERY TEAM IN REALISTIC FIRE MISSIONS WITH A REDUCTION IN EXPENDITURE OF AMMUNITION AND RELATED OPERATIONAL COSTS. FSCATT PHASE I WILL PROVIDE BATTERY-LEVEL TRAINING AND FEEDBACK IN INDIVIDUAL SKILLS, CREW DRILLS, AND PARTIAL UNIT DRILLS IN EXECUTING INDIRECT FIRE MISSIONS. FSCATT PHASE I WILL MONITOR ACTIVITIES, RECORD PERFORMANCE, AND PRODUCE AFTER ACTION REVIEW REPORTS. FSCATT PHASE I WILL CONSIST OF THE FOLLOWING FIVE ELEMENTS: A SIMULATOR THAT REPLICATES AN ACTUAL M109A5 SELF-PROPELLED HOWITZER TURRET; STRAP-ON SENSORS FOR SELECTED TOWED AND SELF-PROPELLED HOWITZERS; A FIRE DIRECTION CENTER SIMULATOR; A COLLECTIVE TRAINING CONTROLLER; AND A FORWARD OBSERVER TRAINER INTERFACE. THESE FIVE ELEMENTS WILL BE LINKED TO FORM A NETWORK OF THREE TRAINING SUBSYSTEMS: THE HOWITZER CREW TRAINER (HCT) SUBSYSTEM (OR HOWITZER STRAP-ON TRAINER SUBSYSTEM); THE COLLECTIVE TRAINING CONTROL SUBSYSTEM (CTCS); AND THE FORWARD OBSERVER TRAINER. NOTE: THE GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINER (GUARDFIST II) PLAYS THE ROLE OF THE FORWARD OBSERVER IN FSCATT PHASE I, BUT GUARDFIST II IS NOT A PART OF THIS PROCUREMENT. EACH FSCATT PHASE I TRAINING SUBSYSTEM WILL BE CAPABLE OF BEING CONFIGURED TO SUPPORT STAND-ALONE, INTERACTIVE, AND CLOSED-LOOP OPERATIONAL TRAINING MODES.									
JUSTIFICATION: IN THE PAST, FIELD ARTILLERY GUNNERY TEAM TRAINING HAS BEEN CONDUCTED THROUGH THE USE OF LIVE FIRE EXERCISES WHICH LACK REALISM DUE TO SAFETY CONSTRAINTS (E.G. NO ENEMY MANEUVER, OR FIRE). THIS TRAINING IS COSTLY IN TERMS OF RANGE SUITABILITY AND AVAILABILITY, AMMUNITION EXPENDITURE AND TRAVEL RELATED POL COSTS. FISCAL CONSTRAINTS THROUGH FY06 MANDATE A SIGNIFICANT REDUCTION (APPROXIMATELY 30%) OF AMMUNITION RESOURCES FOR TRAINING UNITS. REDUCED TRAINING RESOURCES AND INCREASING AMMUNITION COSTS PROHIBIT FIRING SUFFICIENT QUANTITIES OF AMMUNITION TO ATTAIN/SUSTAIN THE REQUIRED LEVEL OF FIELD ARTILLERY GUNNERY TEAM PROFICIENCY. TO COMPENSATE FOR PROJECTED REDUCTIONS IN AMMUNITION, OTHER REALISTIC AND EFFECTIVE WEAPONS TRAINING ARE REQUIRED. EFFECTIVE USE OF FSCATT WILL TRAIN THE GUNNERY TEAM TO DELIVER ACCURATE AND PREDICTED FIRES WITHOUT THE OPERATING TEMPO (OPTEMPO) AND AMMUNITION COSTS ASSOCIATED WITH LIVE FIRE AND ALSO PERMIT INTEGRATION OF FIELD ARTILLERY UNITS INTO A COMBINED ARMS BATTLEFIELD FOR COLLECTIVE TASK TRAINING.									
DD Form 2454, JUL 88		P-1 SHOPPING LIST		UNCLASSIFIED		Page of		Pages EXHIBIT P-40	
ITEM NO 158		PAGE NO 1		OF 5					

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) (NA0174)			A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3			B. WEAPON MODEL/SERIES/POPULAR NAME			C. MANUFACTURER NAME PLANT CITY/STATE LOCATION			D. DATE MONTH/YEAR FEBRUARY 1995	
WEAPONS SYSTEM COST ELEMENTS			IDENT. CODE	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	QTY TOTAL COST	BY1 96 UNIT COST	QTY TOTAL COST	BY2 97 UNIT COST	QTY TOTAL COST		
1. FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER			B										
A. COLLECTIVE TRAINING CONTROL SYSTEM												24	480
B. HOWITZER CREW TRAINER												16	14080
C. STRAP-ON TRAINER												84	2940
D. A6 STRAP-ON TRAINER												64	192
E. STRAP-ON INSTRUCTOR/OPERATOR STATION												33	99
F. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT													485
G. QUALITY CONTROL													340
H. ENGINEERING CHANGES													757
I. DATA													676
J. PRODUCTION TESTING													288
K. CONTRACTOR SUPPORT SERVICES													300
L. INTERIM CONTRACTOR LOGISTICS SUPPORT													1515
												22152	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

A. DATE FEBRUARY 1995

B. APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE

FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1

(NA0174)

COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. FSCATT										
A. COLLECTIVE TNG CONTROL SYS	UNKNOWN	C/FPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	24	20000	NO		SEPT 96
B. HOWITZER CREW TRAINER	UNKNOWN	C/FPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	16	880000	NO		SEPT 96
C. STRAP-ON TRAINER	UNKNOWN	C/FPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	84	35000	NO		SEPT 96
D. A6 STRAP-ON TRAINER	UNKNOWN	C/FPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	64	3000	NO		SEPT 96
E. STRAP-ON INSTRUCTOR/ OPERATOR STATION	UNKNOWN	C/FPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JAN 97	MAY 97	33	3000	NO		SEPT 96

D. REMARKS

CODE "B" ITEM DESCRIPTION		DATE	FEBRUARY 1995	REPORT CONTROL SYMBOL DD-COMPIAR) 1092	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE I (NA0174)			
CURRENT DEVELOPMENT AND TEST STATUS					
		SCHEDULE DATE			
CURRENT		LAST REPORTED		REASON FOR DELAY	
JAN 96		JAN 96			
JUN 96		JUN 96			
SEP 96		SEP 96			
SEP 96		SEP 96			
DEV TEST & EVAL (DT&E)		PLAN/ACTUAL			
INITIAL OPER TEST & EVAL (IOT&E)		PLAN/ACTUAL			
OPER TEST & EVAL (OT&E)		PLAN/ACTUAL			
AVAIL DATE OF TECH DATA PKG (TDP)					
OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE		DEC 96			
EQUIPMENT ITEM(S) TO BE REPLACED		N/A			
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED					
RDT&E FUNDING PROFILE (\$ IN MILLIONS)					
DEVELOPMENT CONTRACT INFORMATION					
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96
UNKNOWN			0.4	5.8	7.0
			0.4	5.8	7.0
TOTAL RDT&E FUNDING					
REMARKS:					
1. RDT&E CONTRACT AWARD MAY 95. AWARD DELAYED DUE TO OSD DIRECTED CHANGE OF CONTRACT TYPE FROM COST-PLUS TO FIXED PRICE, AND ADDITIONAL TIME REQUIRED TO COMPLETE SOURCE SELECTION. 2. PROTOTYPES DEVELOPED MAY 95-AUG 96. 3. ACCEPTANCE TESTING OCT 96 - DEC 96.					
DD Form 2443, JUL 88		P-1 SHOPPING LIST		Page	of Pages
ITEM NO 158		PAGE NO 4		EXHIBIT P-19	

REPORTS CONTROL SYMBOL										UNCLASSIFIED										DATE FEBRUARY 1995									
DD-COMP(R)1092										PRODUCTION SCHEDULE																			
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																			
OTHER PROCUREMENT: ARMY 3										FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1																			
OTHER SUPPORT EQUIPMENT																													
										P-1 SHOPPING LIST																			
DD Form 2445, JUL 87										ITEM NO 158 PAGE NO 5 OF 5										UNCLASSIFIED									
Page										OF										Pages									
EXHIBIT P-21																													

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$0000)						Date	FEBRUARY 1995
Appropriation/P-1 Line Item		Weapons System (if applicable)			Equipment Nomenclature		PE
OPA 3 TRAINING DEVICES, NON-SYSTEM					NA0174 FSCATT/PHI		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3
Quantity							BY2 + 4
Proc				22.2	21.0	30.2	16.7
RD&E	0.4	5.8	7.0				117.4
O&S							13.2
TRAINING SYSTEM DESCRIPTION: THE FSCATT SYSTEM (PHASE I) PROVIDES FIELD ARTILLERY BATTERIES WITH THE CAPABILITIES TO CONDUCT INTEGRATED TRAINING WITH FORWARD OBSERVERS, FIRE DIRECTION CONTROLLERS AND FIRING BATTERY PERSONNEL ON A LOCAL NETWORK. FSCATT PHASE I WILL PROVIDE INITIAL AND SUSTAINMENT TRAINING FOR THE ENTIRE GUNNERY TEAM. IT WILL INTEGRATE TACTICAL EQUIPMENT AND SIMULATED HOWITZER DEVICES IN A CLOSED LOOP NETWORK AND CREATE A BATTER-LEVEL COMMAND AND CONTROL TACTICAL TRAINER. THE SYSTEM WILL ALSO PROVIDE ESSENTIAL PERFORMANCE MEASUREMENT DATA FOR THE FIELD ARTILLERY CREWS, WHILE ALSO PROVIDING A MAN-IN-THE-LOOP INPUT TO CLOSE COMBAT TACTICAL TRAINER.							
		P-1 SHOP LIST ITEM NO.		PAGE NO.		EXHIBIT-43, PAGE 1 of 6	
		158 A		1A		P-43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date	FEBRUARY 1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)			IOC Date		Equipment Nomenclature			PE		
OPA 3 NSTD					30FY97		NA0174 FSCATT/PHI			844715		
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		Current Year		Budget Year 1		Budget Year 2	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
FSCATT/PHI	ARMY WIDE	30FY97	30FY97	N/A							221	22152
					PAGE NO.		158 A		2A		EXHIBIT 43, PAGE 2 of 6	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)										Date		FEBRUARY 1995	
Training Device by Type										Weapon System (if applicable)			
OPA 3 NSTD													
Description/Justification													
NA0174 FSCATT/PHI													
Financial Plan	Prior Years		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)													
ECOs							221	17791					
Nonrecurring								757					
GFE													
Other (Specify)													
Total Hardware Costs								18548					
SUPPORT COSTS													
Special SE													
Integrated Logistics Support													
SPARES/PROV ITEMS													
TESTING/ENG SPT													
Other (Specify)													
Total Support Costs													
Software/Courseware													
TOTAL COSTS													
		P-1 SHOP LIST ITEM NO.		158 A		PAGE NO.		EXHIBIT-43, PAGE 3 of 6					

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED					BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE RECONFIGURABLE SIMULATORS (KA6000)								
QUANTITY		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
COST(IN MILLIONS)				12.6	16.8	10.7	8.3	4.2	3.4	
<p> DESCRIPTION: THE FY96/97 RECONFIGURABLE SIMULATOR PROGRAM (RSP) PROVIDES SIMULATORS FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES (CDFs). THE RSP WILL LEVERAGE OFF OVERARCHING ARCHITECTURE FOR RECONFIGURABLE SIMULATORS AND ALLOW FOR FIELDING OF SIMULATORS WITH SUBSTANTIALLY MORE CAPABILITY THAN CURRENT SIMULATORS AT A SUBSTANTIAL REDUCTION IN COST. THESE SIMULATORS WILL PROVIDE A WIDE RANGE OF FUNCTIONALITY OF AVIATION AND GROUND CAPABILITIES. THE SIMULATORS WILL BE FIELDED TO THE AVIATION TEST BED (AVTB) AND OTHER SITES DEEMED NECESSARY BY THE FUNCTIONAL MANAGER FOR DIS. THE SIM UPGRADES (FORT KNOX AND FORT RUCKER) WILL ENHANCE THE CAPABILITIES OF THE SITES CORE SIMULATOR ASSETS. FUNDING FOR THESE ENHANCEMENTS WILL PROVIDE FOR AN ANALYSIS OF USER REQUIREMENTS, THE TECHNICAL APPROACHES AVAILABLE TO SATISFY THOSE REQUIREMENTS, AND THE ACTUAL ENHANCEMENTS. IN ADDITION, THE UPGRADES WILL PROVIDE FOR INCREASED CAPABILITIES TO SIMULATOR VISUAL DISPLAY SYSTEMS, COMPUTER IMAGE GENERATORS, HOST COMPUTER PROCESSING POWER AND NETWORK INTERFACE STANDARDS. THE FY 97 BATTLE LAB RECONFIGURABLE SIMULATOR INITIATIVE (BLRSI) PROCURES RECONFIGURABLE SIMULATORS FOR USE IN THE ARMY'S BATTLE LABORATORIES. THESE SIMULATORS WILL PORTRAY A WIDE RANGE OF FUNCTIONALITY AND SPAN ALL BATTLEFIELD OPERATING SYSTEMS (BOS). THE FY 97 BLRSI PROGRAM WILL CONCENTRATE ON GROUND, AIR, AND BATTLE COMMAND VEHICLES AND SYSTEMS. THE SIMULATORS WILL BE FIELDED TO THE FOLLOWING SITES: DISMOUNTED BATTLE SPACE BATTLE LAB (FORT BENNING, GA), AVIATION TEST BED (FORT RUCKER, KY), AND BATTLE COMMAND COMMAND (FORT LEAVENWORTH, KS). </p> <p> JUSTIFICATION: SIMULATORS PROCURED FROM THE RECONFIGURABLE SIMULATOR PROGRAM (RSP) FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES (CDFs) LINK WITH TRADOC BATTLE LABORATORIES, RESEARCH AND DEVELOPMENT CENTERS, INDUSTRY AND ACADEMIA TO CHANGE THE CURRENT PARADIGM OF CONDUCTING BUSINESS IN THE MATERIEL ACQUISITION PROCESS. RECONFIGURABLE SIMULATOR PROGRAM WILL FACILITATE ARMY ACCOMPLISHING THE GOALS AND OBJECTIVES FOR FORCE XXI, LOUISIANA MANEUVERS (LAM), SYNTHETIC THEATER OF WAR (STOW), NUMEROUS ADVANCED TECHNOLOGY DEMONSTRATIONS (ATDs) AND ADVANCED WARFIGHTING EXPERIEMENTS (AVES). PROCUREMENT OF SIMULATOR WILL PROVIDE THE CDFs WITH THE NECESSARY TOOLS TO COMBINE MATERIAL DEVELOPMENT, TRAINING ENVIRONMENT, AND REQUIREMENTS VALIDATION AT THE SAME FACILITIES. THE SIM UPGRADES ARE REQUIRED TO ACCURATELY PORTRAY AVIATION ASSETS IN THE DEVELOPING SYNTHETIC ENVIRONMENT OF DISTRIBUTED INTERACTIVE SIMULATION (DIS). UPGRADES WILL PROVIDE A LEARNING CURVE FOR THE FOLLOW-ON DEPLOYMENT OF BATTLE LAB RECONFIGURABLE SIMULATOR INITIATIVE (BLRSI) OR AVIATION COMBINED ARMS TACTICAL TRAINER (AVCATT) PROTOTYPES. THE BLRSI FOCUSES ON THE EMERGING VIRTUAL SIMULATION DOMAIN, INCLUDING MANNED SIMULATORS OPERATING IN A SYNTHETIC ENVIRONMENT. RECONFIGURABLE SIMULATORS ARE CRUCIAL FOR EXPERIMENTATION IN EVALUATING THE WARFIGHTING IMPACT OF SYSTEMS, PLATFORMS, AND TECHNOLOGIES FOR THE FORCE PROJECTION ARMY. THE KEY IN THE BATTLE LAB PROCESS IS EXPERIMENTATION WITH NEW SYSTEMS AND TECHNOLOGIES, PRIMARILY THROUGH THE MEDIUM OF SIMULATION. BATTLE LABS CURRENTLY LACK THE SIMULATORS TO EXPERIMENT EFFECTIVELY, AND BLRSI PROVIDES THIS CRUCIAL MISSING CAPABILITY. PROCUREMENT OF THE SIMULATORS SHOWN ABOVE WILL PROVIDE THE BATTLE LABS WITH THE NECESSARY TOOLS TO DETERMINE THE WARFIGHTING IMPACT OF A VARIETY OF EMERGING SYSTEMS, TECHNOLOGIES, AND CAPABILITIES. </p>										
DD Form 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages EXHIBIT P-40		
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WEAPON SYSTEM COST ANALYSIS

EXHIBIT (P-5)

RECONFIGURABLE SIMULATORS

Weapon System Cost Elements		Ident. Code	FY94		CY95		BY1 96		BY2 97		Qty Total Cost	Qty Total Cost
			Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost		
HARDWARE												
A. HELMET MOUNTED DISPLAY SYSTEM		B					70000	4/280				
B. COMPUTER IMAGE GENERATOR		B					300000	4/1200				
C. FIBER DISTRIBUTED DATA INTERFACE		B					1000000	1/1000				
D. RECONFIGURABLE AVIATION SIMULATORS		B					1200000	4/4800	1200000		2/2400	
E. RECONFIGURABLE GROUND SIMULATORS		B					810000	3/2430	810000		10/8100	
F. SIMULATOR UPGRADE (FT KNOX)		B					968667	3/2906	774000		3/2322	
G. RECONFIGURABLE FIRE SUPPORT SIMULATOR		B							810000		2/1620	
H. RECONFIGURABLE BATTLE COMMAND SIMULATOR		B							2345000		1/2345	
												16787

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3					C. P-1 ITEM NOMENCLATURE RECONFIGURABLE SIMULATORS (KA6000)						
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATIO	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQD	IF YES, WHEN AVAILABLE	
A. HELMET MOUNTED DISPLAY SYSTEM FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Dec-95	4	70000	YES	YES	Aug-95	
B. COMPUTER IMAGE GENERATOR FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Dec-95	4	300000	YES	YES	Aug-95	
C. FIBER DISTRIBUTED DATA INTERFACE FY 96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-95	Mar-96	1	1000000	YES	NO		
D. AVIATION SIMULATOR FY96 FY 97	UNKNOWN UNKNOWN	C/CPFF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 May-97	Oct-96 Oct-97	4 2	1200000 1200000	NO NO		Feb-96 Feb-97	
E. GROUND SIMULATOR FY 96 FY 97	UNKNOWN UNKNOWN UNKNOWN	C/CPFF OPTION OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 Oct-96 May-97	Oct-96 May-97 Oct-97	3 7 3	810000 810000 810000	NO NO NO		Feb-96 Jul-96 Feb-96	
F. SIM UPGRADE -FT KNOX FY96 FY 97	UNKNOWN UNKNOWN	C/CPFF OPTION	NAVAL AIR WARFARE CENTER, ORLANDO FL	May-96 May-97	Oct-96 Oct-97	3 3	968667 774000	NO NO		Feb-96 Feb-97	
G. FIRE SUPPORT SIMULATOR FY 97	UNKNOWN	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-96	Apr-97	2	810000	NO		Jul-96	
H. BATTLE COMMAND SIMULATOR FY 97	UNKNOWN	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-96	Apr-97	1	2345000	NO		Jul-96	
D. REMARKS											

UNCLASSIFIED		DATE FEBRUARY 1995		REPORT CONTROL SYMBOL DD-COMP(AR)1092	
CODE "B" ITEM DESCRIPTION		P-1 ITEM NOMENCLATURE RECONFIGURABLE SIMULATORS			
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		(KA6000)			
CURRENT DEVELOPMENT AND TEST STATUS					
CURRENT		SCHEDULE DATE			
LAST REPORTED		REASON FOR DELAY			
JUN 96 DEC 96 MAY 97					
DEV TEST & EVAL (DT&E) PLAN/ACTUAL INITIAL OPER TEST & EVAL (IOT&E) PLAN/ACTUAL OPER TEST & EVAL (OT&E) PLAN/ACTUAL AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE DEC 96					
EQUIPMENT ITEM(S) TO BE REPLACED SINNET DEVICES					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED LEVEL II SIMULATION ENVIRONMENT.					
DEVELOPMENT CONTRACT INFORMATION					
CONTRACTOR NAME		PLANT LOCATION		RD&E FUNDING PROFILE (\$ IN MILLIONS)	
UNKNOWN				COMPONENT	THRU PYR
				CY	BY1
				14500	6139
				0	3745
TOTAL RD&E FUNDING				0	0
REMARKS					
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		DATE February 1995				
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE						
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		PHYSICAL SECURITY SYSTEMS (OPA3)						
		(MA0780)						
	FY 94 *	FY 95 *	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	11.1	10.1	6.2	6.2	9.3	10	10.2	

DESCRIPTION: Physical Security Systems protect high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these resources prior to armed conflict or to embarrass the Government during peacetime. Physical Security Systems include the Integrated Commercial Intrusion Detection System (ICIDS), the Joint-Services Interior Intrusion Detection System (J-SIIDS) and the Commercial Intrusion Detection Systems (CIDS). The ICIDS program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional Arms, Ammunition and Explosive Areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. These components are assembled as "systems" to meet the site specific security requirements of installations on a DA Distribution Plan. Air Force developed components which provide security for exterior perimeters of sensitive facilities will be procured and will eventually be integrated into the ICIDS program. The Alarm Monitor Group (AMG), a Personal Computer based upgrade to the J-SIIDS, provides a cost effective system meeting basic security communications, control and display capabilities for small site applications where an ICIDS would be inappropriate. These components are assembled as "systems" to meet the site specific requirements of installations on a DA Distribution Plan. The J-SIIDS is an Army Type Classified Standard Interior intrusion detection system used to secure arms rooms, nuclear/chemical and conventional ammunition magazines, drug storage, automatic data processing centers, communications and financial facilities. When centrally managed ICIDS or J-SIIDS cannot be used, MACOMs use locally purchased CIDS to secure these resources.

JUSTIFICATION: FY96/97 funds procurement of electronic Physical Security Equipment (PSE). These funds address the modernization of integrated PSE for intrusion detection and assessment, access control, and electronic surveillance. Provide regulatory required security measures for chemical storage/demilitarization facilities; nuclear reactors; conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimize risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers/civilian guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorists/criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON). Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for Force Protection missions during mobilization and deployment.

* Transferred from OPA-2 to OPA-3 starting in FY96.

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED				WEAPON SYSTEM COST ANALYSIS EXHIBIT				DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)									
		MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A		WEAPON MODEL/SERIES/POPULAR NAME PSE							
Weapon System Cost Elements		IDENT CODE	FY 94* UNIT COST	Quantity TOTAL COST	FY 95* UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST	
ICIDS		A	**	3 4,857 933	**	3 4,863 866	**	3 3,114 443	**	4 3,077 440	
ICIDS Hardware											
Engineering Support											
AMG		A		30 630 248		30 630 350		30 630 248		30 630 248	
AMG Hardware											
Engineering Support											
Subtotal				6,668		6,709		4,435		4,395	
J-SIIDS		A		504 504 270		504 504 270		250 250 100		250 250 100	
J-SIIDS Hardware											
Engineering Support											
CIDS			**	2,484 1,200	**	584 2,082		639 766		723 752	
Anti-terrorism (Force Protection)			**		**						
Engineering Support				4,458		3,440		1,755		1,825	
Subtotal											
* Transferred from OPA-2 to OPA-3 in FY96. ** "Unit Cost" is site dependent; components are assembled according to individual site security requirements.											
TOTAL				11,126		10,149		6,190		6,220	
		P-1 SHOPPING LIST				UNCLASSIFIED		Page of Pages			
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* Transferred from OPA-2 to OPA-3 in FY96.

** "Unit Cost" is site dependent; components are assembled according to individual site security requirements.

CLASSIFIED

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT					DATE February 1995			
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE PHYSICAL SECURITY SYSTEMS (OPA3)					(MA0780)			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
ICIDS FY94	Paramax Systems Corp Alexandria, VA	C/FP Option	ATCOM	Jan 94	Jun 94	3	*	Yes	No	
FY95	Paramax Systems Corp	C/FP Option	ATCOM	Jan 95	Feb 95	3	*	Yes	No	
FY96	Paramax Systems Corp	C/FP Option	ATCOM	Jan 96	Mar 96	3	*	Yes	No	
FY97	Paramax Systems Corp	C/FP Option	ATCOM	Jan 97	Feb 97	4	*	Yes	No	
AMG FY94	Federal Prison Ind., Big Springs, TX	SS/Option	ATCOM	Aug 94	Jan 95	30	21,000	Yes	No	
FY95	Federal Prison Ind.,	SS/Option	ATCOM	Feb 95	Jul 95	30	21,000	Yes	No	
FY96	Federal Prison Ind.,	SS/Option	ATCOM	Feb 96	Jul 96	30	21,000	Yes	No	
FY97	Federal Prison Ind.,	SS/Option	ATCOM	Feb 97	Jul 97	30	21,000	Yes	No	
J-SIIDS FY94	** CKC Industries, Inc. Tampa, FL	C/FP	ATCOM	Jan 94	Mar 94	504	1,000	Yes	No	
FY95	TBS	C/FP Option	ATCOM	Jan 95	Mar 95	504	1,000	Yes	No	
FY96	TBS	C/FP Option	ATCOM	Jan 96	Mar 96	250	1,000	Yes	No	
FY97	TBS	C/FP Option	ATCOM	Jan 97	Mar 97	250	1,000	Yes	No	
CIDS	***									
REMARKS										
* "Unit Cost" is site dependent; components are assembled according to individual installation security requirements.										
** J-SIIDS components are produced by multiple sources under separate requirements contracts. Deliveries are on a demand basis. CKC Industries produces the prime.										
*** CIDS funds locally purchased, nonstandard, IDS hardware. Funds are MIPR'd to installations for competitive contracts, Project orders or Work Requests.										
P1 SHOPPING LIST				UNCLASSIFIED		Page of		EXHIBIT P-5A		
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UNCLASSIFIED										DATE FEBRUARY 1995
REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 - Other Support Equipment		P-1 ITEM NOMENCLATURE SYSTEM FIELDING SUPPORT (OPA-3) (MA0070) (MA0070)								
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00/01		
QUANTITY										
COST(IN MILLIONS)	19.2	13.9	10.0	14.0	5.5	5.5	7.9/7.4			
<p>DESCRIPTION: System Fielding Support funds provide for First Destination Transportation (FDT), Total Package Fielding (TPF) and New Equipment Training (NET) for all systems and equipment funded within Other Procurement Army, Activity 3, Other Support Equipment. FDT funds provide for the movement of Army equipment, Modification kits, assemblies and components form the manufacturing point to a CONUS depot or other points of first acceptance within the CONUS supply system. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract). TPF is the standard method of fielding new equipment developed under the Army's force modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, Deprocessing, Temporary Duty (TDY), Salaries (AIF), and Army Stock Fund managed equipment.</p> <p>JUSTIFICATION: Funds will ensure (1) continued uninterrupted shipment of newly procured items to Army users in support of readiness and training, (2) continued and orderly fielding of force modernization systems, and (3) the transfer of knowledge from the materiel developer to the trainer, user, and other support personnel.</p>										
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET					DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE BASE LEVEL COMMERCIAL EQUIPMENT					(HB7000)	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY00/FY01	
QUANTITY								
COST(IN MILLIONS)	17.3	8.0						
<p>DESCRIPTION: The Base Level Commercial Equipment (BCE) program funds equipment to support installation operating missions with contracts for the required equipment being awarded by the installation. BCE items are generally commercial, off-the-shelf, non-centrally managed, authorized by Table of Distribution and Allowances (TDA) activities of the Active Army and Reserve components and those Joint Table of Allowances (JTA) activities for which the Army is the executive agent, can be used in a stand-alone mode and not lose its identity on application, and have a unit cost of \$50,000 or more. Examples of these items are: Commercial laundry and Dry Cleaning equipment, Grounds Maintenance equipment, and Dishwashers.</p> <p>JUSTIFICATION: The BCE program funds virtually all non-standard items with a cost of \$50,000 or more which are not available through the Army Supply System. Twenty-six Major Commands/General Operating Agencies are provided funds from this budget line.</p>								
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 162 PAGE NO 1 OF 1			UNCLASSIFIED		Page of Pages EXHIBIT P-40	

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED										DATE	Feb 1995
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE											
APPROPRIATION /BUDGET ACTIVITY		Modification of In-Svc Equip											
Other Procurement: Army 3													
Other Support Equipment													
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01				
QUANTITY													
COST (IN MILLIONS)		40.9	36.2	21.9	15.3	19.3	24.6	17	18.5				
DESCRIPTION: This budget roll line includes both the procurement and installation of modification kits for OPA-3 equipment.													
SYSTEM / NOMENCLATURE													
Logistics-Over-The-Shore (LOTS)													
	Modification Kits												
	Installation of Modifications		2.483	8.130	6.286				7.368				
	LOTS TOTALS		1.200	4.381	3.231				3.920				
			3.683	12.511	9.517				11.288				
Distribution Illumination System, Electric (DISE)													
	Modification Kits		.412										
	Installation of Modifications		.342										
	DISE TOTALS		.753										
Environmental Compliance (EC)													
	Modification Kits		23.373	8.153									
	Installation of Modifications		13.108	6.976									
	EC TOTALS		36.481	15.129									
Combat Service Support Equipment													
	Modification Kits			.530	1.345								
	Installation of Modifications		.020	.315	1.236								
	COMBAT SERVICE SPT TOTALS		.020	.845	2.581								
Bridging Equipment Modification Kits													
				1.595									
Smoke Obscurant Modification Kits													
					2.769								

REPORTS CONTROL SYMBOL DD-COM(ARI) 1092		UNCLASSIFIED										DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		BUDGET ITEM JUSTIFICATION SHEET										P-1 ITEM NOMENCLATURE MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)	
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01				
QUANTITY													
COST (IN MILLIONS)		40.9	30.1	12.1	11.3								

DESCRIPTION: This budget line funds ATCOM's OPA 3 modification of in service equipment programs. It is used to procure hardware, materials, and installation to complete the modifications. The items supported by this budget line include the entire range of ATCOM managed systems including our Logistics-Over-The-Shore (LOTS) watercraft, Combat Service Support equipment such as Laundries, Engineering Support equipment such as Diving Recompression Chambers, Bridging, POL and Water equipment, Rail, and Environmental Control equipment. Modifying in use equipment is done to correct safety deficiencies, increase mission capabilities, extend the useful life, extend supportability, upgrade to existing technology, increase efficiency, and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

JUSTIFICATION: The FY 96/97 modification of in service equipment programs supports primarily modernization of LOTS watercraft. The types of programs involved include equipment upgrades, service life extension, and communication, electronics, and navigational (CEN) equipment upgrades. They support the entire fleet of Army watercraft. Continuing to modify and modernize these vessels precludes the necessity to replace them with new vessels, at considerably greater cost. These funds also support modifications on the Medium Girder Bridge, Laundry Units, Refrigerated Containers, and Recompression Chambers. These modifications will allow this equipment to meet existing mission requirements, increase efficiency, and meet current certification requirements

UNCLASSIFIED										DATE February 1995	
BUDGET ITEM JUSTIFICATION SHEET											
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		P-1 ITEM NOMENCLATURE									
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) Program Summary								(MA4500)	
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
COST (IN MILLIONS)	40.9	30.1	12.1	11.3							
SYSTEM/NOMENCLATURE											
<u>Logistics-Over-The-Shore (LOTS)</u>											
	Modification Kits	2.483	8.130	6.286	7.368						
	Installation of Modifications	1.200	4.381	3.231	3.920						
	LOTS TOTALS	3.683	12.511	9.517	11.288						
<u>Distribution Illumination System, Electric (DISE)</u>											
	Modification Kits	0.412									
	Installation of Modifications	0.342									
	DISE TOTALS	0.753									
<u>Environmental Compliance (EC)</u>											
	Modification Kits	23.373	8.153								
	Installation of Modifications	13.108	6.976								
	EC TOTALS	36.481	15.129								
<u>Combat Service Support Equipment</u>											
	Modification Kits	0.530	1.345								
	Installation of Modifications	0.020	0.315	1.236							
	CSS TOTALS	0.020	0.845	2.581							
<u>Bridging Equipment</u>											
	Modification Kits	1.595									
	Installation of Modifications	1.595									
	BRIDGING TOTALS										
<u>Modification of In Service Equipment</u>											
	Modification Kits	26.267	18.408	7.631	7.368						
	Installation of Modifications	14.670	11.672	4.467	3.920						
	MOD TOTALS	40.937	30.080	12.098	11.288						

UNCLASSIFIED		MODIFICATION INSTALLATION SUMMARY					DATE February 1995				
REPORTS CONTROL SYMBOL		(\$ in millions)									
DD-COMP(ARI) 1092											
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement: Army 3		MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)									
Other Support Equipment		Installation Summary									
		(MA4502)									
SYSTEM/MODIFICATION		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	COST TO COMPLETE	TOTAL
Landing Craft, Mechanized 8 ton (SLEP)		1.200									1.200
Landing Craft, Mechanized 8 ton (Equipment Upgrade)				0.231	0.403						0.634
Floating Machine Shop (Modernization)			1.436								1.436
Crane Barge, 100 Ton (Modernization)			1.302								1.302
Barge, Deck Cargo (Modernization)			0.288								0.288
Logistics Support Vessel (Modernization)			1.355								1.355
Lighter, Amphibious, Resupply Cargo 60 (SLEP)							0.920				0.920
Tug, 100' (Equipment Upgrade)				3.000	2.000						5.000
Marine CEN Equipment Upgrade (Watercraft)					0.596						0.596
Distribution Illumination Sys, Elec (Circuit Breaker)		0.342									0.342
Landing Craft, Utility 2000 (Halon Removal)			1.020								1.020
ROWPU Barge (Halon Removal)			0.168								0.168
Landing Craft Utility 1600 (Halon Removal)			0.240								0.240
Logistic Support Vessel (Halon Removal)			0.210								0.210
Large Tug (Halon Removal)			0.297								0.297
AN/TSC-85 (Air Conditioner/CFC)		0.314									0.314
AN/TSC-93 (Air Conditioner/CFC)		0.499									0.499
AN/ASM-189 (Air Conditioner/CFC)		3.531									3.531
AN/ASM-190 (Air Conditioner/CFC)		1.866									1.866
AN/ASM-141 (Air Conditioner/CFC)		0.225									0.225
ESC-146 (Air Conditioner/CFC)		6.113									6.113
ESC-38 (Air Conditioner/CFC)		0.289									0.289
AN/ASM-82 (Air Conditioner/CFC)		0.271									0.271
Landing Craft, Utility 2000 (Refrigeration/CFC)			0.378								0.378
Logistic Support Vessel (Refrigeration/CFC)			0.945								0.945
Landing Craft Utility 1600 (Refrigeration/CFC)			0.360								0.360
Tug, 128' (Refrigeration/CFC)			0.338								0.338
Tug, 100' (Refrigeration/CFC)			0.156								0.156
Tug, 65' (Refrigeration/CFC)			0.391								0.391
Crane, 100 Ton (Refrigeration/CFC)			0.330								0.330
Crane, 60 Ton (Refrigeration/CFC)			0.391								0.391
Floating Machine Shop (Refrigeration/CFC)			0.040								0.040
Refrigeration Equipment (Power Generation)			0.129								0.129
Medium Girder Bridge (Equipment Upgrade)				0.710							0.710
Laundry Units (Laundry Water Reuse)											0.101
Recompression Chamber, Diving (Equipment Upgrade)			0.315								0.315
Deployable Medical Systems (Air Conditioner Upgrade)				0.425							0.425
TOTAL		14.670	11.672	4.467	3.920						34.728

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P-1 SHOPPING LIST

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EXHIBIT P-3N

UNCLASSIFIED											DATE February 1995							
BUDGET ITEM JUSTIFICATION SHEET																		
P-1 ITEM NOMENCLATURE																		
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)																		
Modification Kit Summary											(MA4501)							
											FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY																		
COST (IN MILLIONS)											26.3	18.4	7.6	7.4				
ITEM	NAME	M.C.#	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01								
Landing Craft, Mechanized 8 ton	Service Life Extension Prog	1-82-08-3107																
Landing Craft, Mechanized 8 ton	Equipment Upgrade	TBD																
Floating Machine Shop	Modernization	1-89-08-3123				1.100												
Crane Barge, 100 Ton	Modernization	1-89-08-3127				2.099												
Barge, Deck Cargo	Modernization	1-89-08-3128				0.349												
Logistics Support Vessel	Modernization	1-90-08-3130				4.582												
Lighter, Amphibious, Resupply Cargo 60	Service Life Extension Prog																	
Tug, 100'	Equipment Upgrade	TBD					1.440	2.880										
Marine CEN Equipment Upgrade	Watercraft	TBD					4.500	3.000										
Distribution Illumination Sys, Elec	Circuit Breaker				0.412			0.882										
Landing Craft, Utility 2000	Halon	1-91-08-3307				1.156												
ROWPU Barge	Halon	1-92-08-3108				0.153												
Landing Craft Utility 1800	Halon	1-92-08-3155				0.144												
Logistic Support Vessel	Halon	1-92-08-3129				0.204												
Large Tug	Halon	1-92-08-3131				0.245												
AN/TSC-85	Halon	1-92-08-3145				0.497												
AN/TSC-93	Air Conditioner/CFC	1-92-07-1000				0.574												
AN/ASM-189	Air Conditioner/CFC	1-92-07-1001				0.887												
AN/ASM-190	Air Conditioner/CFC	1-92-07-1002				6.320												
AN/ASM-141	Air Conditioner/CFC	1-92-07-1003				3.204												
ESC-146	Air Conditioner/CFC	1-92-07-1004				0.428												
ESC-38	Air Conditioner/CFC	1-92-07-1017				10.893												
AN/ASM-82	Air Conditioner/CFC	1-92-07-1018				0.550												
Landing Craft, Utility 2000	Air Conditioner/CFC	1-92-07-1019				0.517												
Logistic Support Vessel	Refrigeration/CFC	1-93-08-3156				0.676												
Landing Craft Utility 1800	Refrigeration/CFC	1-93-08-3157				0.840												
Tug, 128'	Refrigeration/CFC	1-93-08-3158				0.282												
Tug, 100'	Refrigeration/CFC	1-93-08-3159				0.260												
Tug, 65'	Refrigeration/CFC	1-93-08-3160				0.120												
Crane, 100 Ton	Refrigeration/CFC	1-93-08-3161				0.306												
Crane, 80 Ton	Refrigeration/CFC	1-93-08-3162				0.270												
Floating Machine Shop	Refrigeration/CFC	1-93-08-3163				0.306												
Refrigeration Equipment	Refrigeration/CFC	1-93-08-3164				0.035												
Medium Girder Bridge	Power Generation	1-94-08-5-82				0.111												
Laundry Unit	MGB Upgrade	TBD				1.595												
Recompression Chamber, Diving	Laundry Water Reuse Sys	TBD				0.420												
	Certification Upgrade	TBD				0.475												
					26.267	18.408	7.631	7.368										
TOTAL											26.267	18.408	7.631	7.368				
P-1 SHOPPING LIST											UNCLASSIFIED		Page	of	Pages			
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INDIVIDUAL MODIFICATION										DATE February 1995					
DD-COMP(AR) 1092															
MODIFICATION TITLE:		LCM-8 Mod 1 Service Life Extension MCF 1-82-08-3107													
MODELS OF SYSTEMS AFFECTED:		Landing Craft, Mechanized, 8 ton (LCM-8)													
DESCRIPTION/JUSTIFICATION:		<p>Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Diesel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolete. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.</p>													
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<p>The first prototype was completed in FY 86 with the second completion in FY 90. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenance schedules.</p>													
FINANCIAL PLAN (\$ in millions)		FY	Qtr	FY 95	Qtr	FY 96	Qtr	FY 97	Qtr	FY 98	Qtr	FY 01	Qtr	TO COMPLETE	TOTAL
RDTRC															
PROCUREMENT															
Qty		77												77	11.84
Installation Kits															1.01
Installation Kits (Nonrecuring)															
Equipment															
Equipment (Nonrecuring)															
Engineering Change Orders															
Data															0.04
Training Equipment															
Support Equipment															
Interim Contractor Support															
Installation Total Cost				18.40											18.40
Installation Unit Cost (non-add)				0.38											
Other				25.10											29.10
Total Procurement Cost															
METHOD OF IMPLEMENTATION:		Contractor										ADMINISTRATIVE LEADTIME:	5	PRODUCTION LEADTIME:	5
CONTRACT DATES:		FY 95:										FY 97:			
DELIVERY DATES:		FY 95:										FY 97:			
INSTALLATION SCHEDULE:		FY	Qtr	FY 95	Qtr	FY 96	Qtr	FY 97	Qtr	FY 98	Qtr	FY 99	Qtr	TO COMPLETE	TOTAL
INPUT		68	3	3	3	3	3	3	3	3	3	3	3	77	77
OUTPUT		61	4	4	4	4	4	4	4	4	4	4	4	77	77
P-1 SHOPPING LIST															
UNCLASSIFIED															
INDIVIDUAL MODIFICATION EXHIBIT P-3a															
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INDIVIDUAL MODIFICATION						DATE February 1995																		
P-1 SHOPPING LIST																								
UNCLASSIFIED							Page of Pages																	
MODIFICATION TITLE:																								
LCM-8 Mod 1 Service Life Extension MCF 1-82-08-3107																								
MODELS OF SYSTEMS AFFECTED:																								
Landing Craft, Mechanized, 8 ton (LCM-8)																								
DESCRIPTION/JUSTIFICATION:																								
Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Diesel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolete. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																								
The first prototype was completed in FY 86 with the second completion in FY 90. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenance schedules.																								
FINANCIAL PLAN (\$ in millions)																								
FY	QTY	\$	FY 95	QTY	\$	FY 96	QTY	\$	FY 97	QTY	\$	FY 98	QTY	\$	FY 99	QTY	\$	TO COMPLETE	FY 01	QTY	\$	TOTAL	QTY	\$
PROCUREMENT																								
In Quantity	77	11.04																				77	11.04	
Installation Kits		1.01																					1.01	
Installation Kits (Nonrecuring) Equipment																								
Equipment (Nonrecuring)																								
Engineering Change Orders																								
Data		0.04																						0.04
Training Equipment																								
Support Equipment																								
Interim Contractor Support																								
Installation Total Cost		16.40																						16.40
Installation Unit Cost (non-add)		0.38																						
Other		25.10																						25.10
Total Procurement Cost																								
METHOD OF IMPLEMENTATION:																								
Contractor																								
CONTRACT DATES:																								
FY 95:																								
FY 96:																								
DELIVERY DATES:																								
FY 95:																								
FY 96:																								
INSTALLATION SCHEDULE:																								
FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total			
INPUT	68	3	3	3																		77		
OUTPUT	61	4	4	4	4																	77		

MODIFICATION TITLE:		LCM-8 Mod 1 Service Life Extension MCF 1-82-08-3107																													
MODELS OF SYSTEMS AFFECTED:		Landing Craft, Mechanized, 8 ton (LCM-8)																													
DESCRIPTION/JUSTIFICATION:																															
Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Diesel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolete. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.																															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																															
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FINANCIAL PLAN (\$ in millions)																															
	QTY	FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL												
Procurement	77																		77	11.84											
Kit Quantity																				1.01											
Installation Kits (Nonrecurring)																															
Equipment																															
Equipment (Nonrecurring)																															
Engineering Change Orders																															
Draws																															
Training Equipment																															
Support Equipment																															
Interim Contractor Support																															
Installation Total Cost																				16.40											
Installation Unit Cost (non-add)																				0.38											
Other																				29.10											
Total Procurement Cost																				29.10											
METHOD OF IMPLEMENTATION:				Contractor				ADMINISTRATIVE LEADTIME:				5				PRODUCTION LEADTIME:				5											
CONTRACT DATES:				FY 95:				FY 96:				FY 97:				FY 98:				FY 99:				FY 00:							
DELIVERY DATES:				FY 95:				FY 96:				FY 97:				FY 98:				FY 99:				FY 00:							
INSTALLATION SCHEDULE:				FY				FY 95				FY 96				FY 97				FY 98				FY 99				FY 00			
INPUT				68				3				3				3				3				3				3			
OUTPUT				61				4				4				4				4				4				4			
TOTAL				77				77				77				77				77				77				77			
INDIVIDUAL MODIFICATION				EXHIBIT P-3a				UNCLASSIFIED				UNCLASSIFIED				UNCLASSIFIED				UNCLASSIFIED				UNCLASSIFIED							
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DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																					
The first prototype was completed in FY 86 with the second completion in FY 90. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenance schedules.																					
FINANCIAL PLAN (\$ in millions)																					
	FY	QTY	\$	FY 95	QTY	\$	FY 96	QTY	\$	FY 97	QTY	\$	FY 98	QTY	\$	FY 99	QTY	\$	TO COMPLETE	TOTAL	
																			QTY	\$	
PROCUREMENT																					
Kit Quantity	77		11.04																	77	11.04
Insulation Kits			1.01																		1.01
Equipment																					
Equipment (Nonrecurring)																					
Engineering Change Orders																					
Data			0.04																		0.04
Training Equipment																					
Support Equipment																					
Interim Contractor Support																					
Insulation Total Cost			16.40																		16.40
Insulation Unit Cost (non-add)			0.38																		
Other																					
Total Procurement Cost			29.10																		29.10
METHOD OF IMPLEMENTATION:	Contractor																				
ADMINISTRATIVE LEADTIME:																					
PRODUCTION LEADTIME:																					
CONTRACT DATES:	FY 95:																				
FY 96:																					
FY 97:																					
DELIVERY DATES:	FY 95:																				
FY 96:																					
FY 97:																					
INSTALLATION SCHEDULE:																					
FY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
INPUT																					
OUTPUT																					
P-1 SHOPPING LIST																					
UNCLASSIFIED										INDIVIDUAL MODIFICATION EXHIBIT P-3a											
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DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																																																																					
Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Diesel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolete. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.																																																																					
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FINANCIAL PLAN (\$ in millions)																																																																					
	PY	\$	QTY	FY 95	\$	QTY	FY 96	\$	QTY	FY 97	\$	QTY	FY 98	\$	QTY	FY 99	\$	QTY	TOTAL																																																		
PROCUREMENT																																																																					
In Quantity	77	11.64																	77	11.64																																																	
Installation Kits		1.01																		1.01																																																	
Equipment (Nonrecurring)																																																																					
Engineering Change Orders		0.04																		0.04																																																	
Data																																																																					
Training Equipment																																																																					
Support Equipment																																																																					
Interim Contractor Support		16.40																		16.40																																																	
Installation Total Cost		0.38																																																																			
Installation Unit Cost (non-add)		29.10																		29.10																																																	
Other																																																																					
Total Procurement Cost																																																																					
METHOD OF IMPLEMENTATION:										ADMINISTRATIVE LEADTIME: 5										PRODUCTION LEADTIME: 5																																																	
CONTRACT DATES:										FY 95:										FY 96:										FY 97:																																							
DELIVERY DATES:										FY 95:										FY 96:										FY 97:																																							
INSTALLATION SCHEDULE:										FY 95: 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2										FY 96: 1										FY 97: 2										FY 98: 2										FY 99: 2										Total									
INPUT										68 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																														77																													
OUTPUT										61 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4																														77																													
P-1 SHOPPING LIST										UNCLASSIFIED										INDIVIDUAL MODIFICATION EXHIBIT P-3a										Page of Pages																																							

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																				
The first prototype was completed in FY 86 with the second completion in FY 90. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenance schedules.																				
RD&E																				
FINANCIAL PLAN (\$ in millions)																				
	QTY	FY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL
				QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY
PROCUREMENT																				
Kit Quantity		77																		77
Installation Kits (Nonrecuring)			11.64																	11.64
Equipment			1.01																	1.01
Equipment (Nonrecuring)																				
Engineering Change Orders																				
Data			0.04																	0.04
Training Equipment																				
Support Equipment																				
Interim Contractor Support																				
Installation Total Cost			16.40																	16.40
Installation Unit Cost (non-add)			0.38																	
Other			29.10																	29.10
Total Procurement Cost																				
METHOD OF IMPLEMENTATION:																				
Contractor																				
ADMINISTRATIVE LEADTIME: 5 PRODUCTION LEADTIME: 5																				
CONTRACT DATES:																				
FY 95: FY 96: FY 97:																				
DELIVERY DATES:																				
FY 95: FY 96: FY 97:																				
INSTALLATION SCHEDULE:																				
	FY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	IC	Total	
INPUT	68	3	3	3															77	
OUTPUT	61	4	4	4	4														77	
P-1 SHOPPING LIST																				
UNCLASSIFIED														INDIVIDUAL MODIFICATION EXHIBIT P-3a						
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FINANCIAL PLAN (\$ in millions)																		
	FY	Qtr	FY 95	Qtr	FY 96	Qtr	FY 97	Qtr	FY 98	Qtr	FY 99	Qtr	FY 00	Qtr	FY 01	Qtr	TO COMPLETE	TOTAL
PROCUREMENT																		
In Quantity																		
Installation Kits	77		11.64															77
Installation Kits (Nonrecurring)			1.01															1.01
Equipment																		
Equipment (Nonrecurring)																		
Engineering Change Orders																		
Data			0.04															0.04
Training Equipment																		
Support Equipment																		
Interim Contractor Support																		
Installation Total Cost			16.40															16.40
Installation Unit Cost (non-add)			0.38															
Other			29.10															29.10
Total Procurement Cost																		
METHOD OF IMPLEMENTATION:																		
Contractor																		
CONTRACT DATES:																		
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INPUT	68	3	3	3														77
OUTPUT	61	4	4	4	4													77

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

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ITEM NO. 165

FINANCIAL PLAN (\$ in millions)										P-1 SHOPPING LIST										UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a	
										PAGE	8	OF	54	Page of Pages									
										ITEM NO 165													
BDDTAE																							
PROCUREMENT																							
Qty	PY	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL													
	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$												
77	11.64								77	11.64													
	1.01									1.01													
	0.04									0.04													
	16.40									16.40													
	0.38																						
	29.10									29.10													
Total Procurement Cost																							
METHOD OF IMPLEMENTATION:																							
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METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		5		PRODUCTION LEADTIME:		5	
CONTRACT DATES:		FY 95:		FY 96:		FY 97:					
DELIVERY DATES:		FY 95:		FY 96:		FY 97:					
INSTALLATION SCHEDULE:		FY		FY 95		FY 96		FY 97		FY 98	
		1 2		2 4		1 2		2 4		1 2	
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OUTPUT		4 4		4 4						77	
P-1 SHOPPING LIST											
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METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		5		PRODUCTION LEADTIME:		5	
CONTRACT DATES:		FY 95:		FY 96:		FY 97:					
DELIVERY DATES:		FY 95:		FY 96:		FY 97:					
INSTALLATION SCHEDULE:		FY		FY 95		FY 96		FY 97		FY 98	
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INPUT		3 3		3						Total	
OUTPUT		4 4		4 4						77	
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METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		5		PRODUCTION LEADTIME:		5	
CONTRACT DATES:		FY 95:		FY 96:		FY 97:					
DELIVERY DATES:		FY 95:		FY 96:		FY 97:					
INSTALLATION SCHEDULE:		FY		FY 95		FY 96		FY 97		FY 98	
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INPUT		3 3		3						Total	
OUTPUT		4 4		4 4						77	
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METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		5		PRODUCTION LEADTIME:		5	
CONTRACT DATES:		FY 95:		FY 96:		FY 97:					
DELIVERY DATES:		FY 95:		FY 96:		FY 97:					
INSTALLATION SCHEDULE:		FY		FY 95		FY 96		FY 97		FY 98	
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INPUT		3 3		3						Total	
OUTPUT		4 4		4 4						77	
P-1 SHOPPING LIST											
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METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		5		PRODUCTION LEADTIME:		5	
CONTRACT DATES:		FY 95:		FY 96:		FY 97:					
DELIVERY DATES:		FY 95:		FY 96:		FY 97:					
INSTALLATION SCHEDULE:		FY		FY 95		FY 96		FY 97		FY 98	
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INPUT	08	3	3	3	3	3	77	77
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DELIVERY DATES:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:	
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DELIVERY DATES:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:		FY 08:		FY 09:		FY 10:		FY 11:		FY 12:		FY 13:		FY 14:		FY 15:		FY 16:		FY 17:		FY 18:		FY 19:		FY 20:		FY 21:		FY 22:		FY 23:		FY 24:		FY 25:		FY 26:		FY 27:		FY 28:		FY 29:		FY 30:		FY 31:		FY 32:		FY 33:		FY 34:		FY 35:		FY 36:		FY 37:		FY 38:		FY 39:		FY 40:		FY 41:		FY 42:		FY 43:		FY 44:		FY 45:		FY 46:		FY 47:		FY 48:		FY 49:		FY 50:		FY 51:		FY 52:		FY 53:		FY 54:		FY 55:		FY 56:		FY 57:		FY 58:		FY 59:		FY 60:		FY 61:		FY 62:		FY 63:		FY 64:		FY 65:		FY 66:		FY 67:		FY 68:		FY 69:		FY 70:		FY 71:		FY 72:		FY 73:		FY 74:		FY 75:		FY 76:		FY 77:		FY 78:		FY 79:		FY 80:		FY 81:		FY 82:		FY 83:		FY 84:		FY 85:		FY 86:		FY 87:		FY 88:		FY 89:		FY 90:		FY 91:		FY 92:		FY 93:		FY 94:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:		FY 07:	
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INSTALLATION SCHEDULE:													UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a	
		FY 95		FY 96		FY 97		FY 98		FY 99		Total				
PV		1	2	3	4	1	2	3	4	1	2	3	4			
INPUT	68	3	3	3									77			
OUTPUT	61	4	4	4	4								77			

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EXHIBIT P-3a

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DATE February 1995

Landing Craft, Mechanized, 8 ton (LCM-8), Mod 1

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. The upgrade will include installation of an escape hatch in the head of the craft, provide a new compass, enhancing the operational capabilities, and an improved bilge ballast system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED QTR/YR	ACTUAL QTR/YR
10/95	10/95	10/95

Material Change approved
IPRI/Production Decision
Production Contract Award
First Production Hardware Delivery
First Modification Kit Applied
Last Modification Kit Applied
PLAT PLAN (\$ in millions)

Execution is contingent upon receipt of \$240K of OMA for prototype work. Funds being sought from USAR and DCSOPS (ASMP).
\$75K OMA being provided by the Army Reserve.

[illegible]

ADT&E

PROCUREMENT

[illegible]

SECTION OF MARI FEMENTATION:

Contractor
Various locations in conjunction with cyclic maintenance schedules.

PRODUCTION LEADTIME:

8

CONTRACT DATES:

	FY 96:	FY 95:
Jan 98		

FY 97: Jan 97

DELIVERY DATES:

FY 95:

FY 97: Jul 97

INSTALLATION SCHEDULE:

[illegible]

Total

Input

70

OUTPUT

70

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REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

FMS Modernization MC/ 1-88-08-3123

Floating Machine Shop (FMS)

DESCRIPTION/JUSTIFICATION:

This modification is required to extend the useful life of the Floating Machine Shop by upgrading obsolete and unsupportable equipment. Service life will be extended by twenty years. This will allow the FMS to provide an intermediate (GS) maintenance support of the Army's fleet of watercraft. An improved, state-of-the-art 10 ton crane will be installed. This will enable the FMS to provide crucial intermediate maintenance support to the Army's fleet of watercraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

ACTUAL
01/01/99
30/90
10/93

Activity	Start Date	End Date
MMC Initiated	10/89	30/90
IPR/Production Decision	40/92	10/93
Prototype completed	40/93	40/93
Requirements Review (Combat Developer - Transportation School)	10/95	10/95
Production Contract Award	20/95	
First Production Hardware Delivery	10/96	
First Kit Applied	20/96	
Last Kit Applied	20/96	

FINANCIAL PLAN (\$ in millions)

[illegible]

ADTAE

PROCUREMENT

Kit Quantity	2	1.10
Installation Kits		
Installation Kits (Nonsecuring)		
Equipment		
Equipment (Nonsecuring)		
Engineering Change Orders		
Data		
Training Equipment		
Support Equipment		
Interim Contractor Support		
Installation Total Cost	2	1.44
Installation Unit Cost (non-add)		0.72
Other		
Total Procurement Cost		2.54

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:	5	PRODUCTION LEADTIME:	9
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CONTRACT DATES:

FY 95:	Feb 95	FY 96:
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DELIVERY DATES:

FY 95:	Nov 95	FY 96:
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INSTALLATION SCHEDULE:

[illegible]

INPUT

2

OUTPUT

2

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INDIVIDUAL MODIFICATION

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UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: Crane Barge Modernization MC# 1-89-08-3127

MODELS OF SYSTEMS AFFECTED: Crane Barge, 100 ton

DESCRIPTION/JUSTIFICATION:

This modification is required to improve safety of personnel and eliminate human factor engineering shortcomings, including provisions for adequate accommodations for a full crew, installation of a general alarm system, replacement of obsolete equipment, and improved operational effectiveness. Completion of this modification will also result in the standardization of hull designs which will improve the supply support of these assets.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Planned QTR/YR
20/89
40/92
20/95
30/95
40/95
10/96
20/96
40/97

Actual QTR/YR
20/89
40/92

Program was delayed due to lack of OMA funding to support engineering and prototype development and testing. OMA funding has now been provided by TUSA.

FINANCIAL PLAN (\$ in millions)

FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL
			9														9

RDIAE

PROCUREMENT

Kit Quantity	9	2.10
Installation Kits		
Installation Kits (Nonrecurring)		
Equipment		
Equipment (Nonrecurring)		
Engineering Change Orders		
Drawings		
Training Equipment		
Support Equipment		
Interim Contractor Support		
Installation Total Cost		1.30
Installation Unit Cost (non-add)		0.14
Other		3.40
Total Procurement Cost		

METHOD OF IMPLEMENTATION:

Contractor

ADMINISTRATIVE LEADTIME: 10

PRODUCTION LEADTIME: 4

CONTRACT DATES:

FY 95: Aug 95 FY 96:

DELIVERY DATES:

FY 95: Dec 95 FY 96:

INSTALLATION SCHEDULE:

FY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	9
INPUT																	9
OUTPUT																	9

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INDIVIDUAL MODIFICATION
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REPORTS CONTROL SYMBOL DD FORM 1092		UNCLASSIFIED		INDIVIDUAL MODIFICATION		DATE February 1995	
MODIFICATION TITLE: Cargo Barge Modernization MCF 1-88-08-3128		MODELS OF SYSTEMS AFFECTED: Barge, Cargo Deck					
DESCRIPTION/JUSTIFICATION: This modification is required to upgrade the barge configuration to support the Intermediate (IS) maintenance mission of the Floating Machine Shop (FMS). It will provide new storage racks & securing devices, a monorail, and replace obsolete doors and hatches with watertight doors and hatches in compliance with SOLAS, U. S. Coast Guard and other regulatory requirements.							
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<p>PLANNED QTR/YR: 30/89, 40/94, 10/95, 20/95, 30/95, 40/95, 10/99</p> <p>ACTUAL QTR/YR: 20/90, 40/94, 10/95</p> <p>Requirements for this barge are dependent on requirements for the FMS. The Transportation School has reviewed these requirements to determine if the FMS is the best solution to DS/GS Watercraft maintenance. Transportation School decision was to continue to support current modification of the FMS and the Cargo Barge.</p>					
FINANCIAL PLAN (\$ in millions)		FY 95	FY 96	FY 97	FY 98	FY 99	TOTAL
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
RDTRC							
PROCUREMENT							
Kit Quantity		2					2
Installation Kit		0.35					0.35
Installation Kits (Nonrecuring)							
Equipment							
Equipment (Nonrecuring)							
Engineering Change Orders							
Data							
Training Equipment							
Support Equipment							
Interim Contractor Support							
Installation Total Cost		0.29					0.29
Installation Unit Cost (non-odd)		0.14					0.14
Other							
Total Procurement Cost		0.64					0.64
METHOD OF IMPLEMENTATION:		Contract		ADMINISTRATIVE LEADTIME:		3	
CONTRACT DATES:		FY 95:	Mar 95	FY 96:		FY 97:	
DELIVERY DATES:		FY 95:	Jun 95	FY 96:		FY 97:	
INSTALLATION SCHEDULE:		FY	1	FY 95	2	FY 96	2
INPUT							
OUTPUT							
P-1 SHOPPING LIST		<p>UNCLASSIFIED</p> <p>INDIVIDUAL MODIFICATION EXHIBIT P-3a</p> <p>of Pages</p>					
ITEM NO 165		PAGE 54					

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: Logistic Support Vessel (LSV) Modernization MCF 1-90-08-3130

MODELS OF SYSTEMS AFFECTED: Logistic Support Vessel

DESCRIPTION/JUSTIFICATION:

This modification corrects technical and operational deficiencies. It eliminates environmental and safety deficiencies. This program will upgrade and modernize systems and components of the LSV, eliminate safety hazards to vessel and crew, place vessels in full compliance with regulatory requirements, replace non supportable components and enhance mission performance.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPRI/Production Decision
- Prototype Completed
- TDP Accepted
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

ACTUAL
QTR/YR
4Q/93

Delayed due to late receipt of OMA funding.
Delayed due to late receipt of OMA funding.
Hardware and application funds will be awarded simultaneously.

The extended application schedule is due to mission and operational considerations, unit readiness and cyclic drydocking requirements. Fragmentation of funds to coincide with funded delivery periods will significantly increase completion time and increase costs due to uneconomical order quantities.

FINANCIAL PLAN (\$ in millions)	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty

RD&E

PROCUREMENT

- KR Quantity
- Installation Kits
- Installation Kits (Nonrecuring)
- Equipment
- Equipment (Nonrecuring)
- Engineering Change Orders
- Draws
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

4 4.58

1.36

0.34

5.94

Total Procurement Cost

4 4.58

1.36

5.94

METHOD OF IMPLEMENTATION: Contractor (Various locations in conjunction with cyclic maintenance)

ADMINISTRATIVE LEADTIME: 10

PRODUCTION LEADTIME: 0

CONTRACT DATES:

FY 95: Oct 95

FY 96:

DELIVERY DATES:

FY 95: Jul 96

FY 96:

INSTALLATION SCHEDULE:

FY	1	2	FY 95	2	4	1	2	FY 96	2	4	1	2	FY 97	2	4	1	2	FY 98	2	4	1	2	FY 99	2	4	1	2	TC	Total
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INPUT

4

OUTPUT

4

P-1 SHOPPING LIST

ITEM NO 165

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UNCLASSIFIED

INDIVIDUAL MODIFICATION
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REPORTS CONTROL SYMBOL		UNCLASSIFIED										DATE February 1995													
INDIVIDUAL MODIFICATION																									
DD-COMP(AR) 1092																									
MODIFICATION TITLE:		DISE Circuit Breaker Upgrade MCF 1-91-08 3307																							
MODELS OF SYSTEMS AFFECTED:		Distribution Illumination System Electric (DISE)																							
DESCRIPTION/JUSTIFICATION:		This program changes the circuit breaker type from thermal to hydraulic. Hardware fabrication and application are to be done concurrently by Federal Prison Industries.																							
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																									
		ACTUAL		PLANNED		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL			
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
IPI/Production Decision Production Contract Award 1st Production Hardware Delivery 1st Modification Kit Applied 1st Modification Kit Applied Financial Plan (in millions)																									
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits (Nonrecurring) Equipment Equipment (Nonrecurring) Engineering Change Orders Data Training Equipment Support Equipment Interim Contractor Support Installation Total Cost Installation Unit Cost (non-add) Other * Installation unit cost is \$340 per unit.		1348	0.38																					1348	0.38
METHOD OF IMPLEMENTATION:		Contractor - Federal Prison Industries (FPI)												ADMINISTRATIVE LEADTIME: 7		PRODUCTION LEADTIME: 6									
CONTRACT DATES:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:	
DELIVERY DATES:		FY 95:		FY 96:		FY 97:		FY 98:		FY 99:		FY 00:		FY 01:		FY 02:		FY 03:		FY 04:		FY 05:		FY 06:	
INSTALLATION SCHEDULE:		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06	
INPUT		1	2	3	4	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
OUTPUT		1348																							
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P-1 SHOPPING LIST														UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a		Page of Pages							
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UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE: February 1995

REPORTS CONTROL SYMBOL
DD-COMP(AR) 1092

MODIFICATION TITLE:

HALON / CFC MC# 1-92-08-3108

MODELS OF SYSTEMS AFFECTED:

LANDING CRAFT, UTILITY 2000 (LCU 2000)

DESCRIPTION/JUSTIFICATION:

FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PLANNED QTR/YR	ACTUAL QTR/YR
20/95	
20/95	
30/95	
40/95	
20/97	

IPR Production Decision
Production Contract Award
First Production Hardware Delivery
First Modification Kit Applied
Last Modification Kit Applied

FINANCIAL PLAN (\$ in millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty

RD&E

PROCUREMENT

Kit Quantity
Installation Kits
Installation Kits (Nonrecuring)
Equipment
Equipment (Nonrecuring)
Engineering Change Orders
Data
Training Equipment
Support Equipment
Install Contractor Support
Installation Total Cost
Installation Unit Cost (non-add)
Other
Total Procurement Cost

34

1.16

34

1.16

METHOD OF IMPLEMENTATION:

CONTRACTOR

ADMINISTRATIVE LEADTIME

6

PRODUCTION LEADTIME

4

CONTRACT DATES:

FY 95:

Mar 95

FY 96:

FY 97:

DELIVERY DATES:

FY 95:

Jun 95

FY 96:

FY 97:

INSTALLATION SCHEDULE:

FY

1

FY 95

2

4

1

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FY 96

2

4

2

FY 97

2

4

1

FY 98

2

3

4

Total

INPUT

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P-1 SHOPPING LIST

INDIVIDUAL MODIFICATION
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REPORTS CONTROL SYMBOL		UNCLASSIFIED										DATE: February 1995																																																																		
INDIVIDUAL MODIFICATION																																																																														
DD COMPART 1092																																																																														
MODIFICATION TITLE:		HALON / CFC MC# 1-92-08-3155																																																																												
MODELS OF SYSTEMS AFFECTED:		ROWPU BARGE																																																																												
DESCRPTION/JUSTIFICATION:		FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES																																																																												
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REPORTS CONTROL SYMBOL
DD-COMPIAR 1092

UNCLASSIFIED
INDIVIDUAL MODIFICATION

DATE: February 1995

MODIFICATION TITLE:
HALON / CFC MC# 1-92-08-3131

MODELS OF SYSTEMS AFFECTED:
LOGISTICS SUPPORT VEHICLE (LSV)

DESCRIPTION/JUSTIFICATION:
FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

IPR Production Decision
Production Contract Award
First Production Hardware Delivery
First Modification Kit Applied
Last Modification Kit Applied

PLANNED
QTR/YR

20/95
20/95
30/95
40/95
40/96

ACTUAL
QTR/YR

FINANCIAL PLAN (\$ in millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty

ROT&E

PROCUREMENT

Kit Quantity
Installation Kits
Installation Kits (Nonrecurring)
Equipment
Equipment (Nonrecurring)
Engineering Change Orders
Data
Training Equipment
Support Equipment
Interim Contractor Support
Installation Total Cost
Installation Unit Cost (non-add)
Other

0 0.20

0 0.20

0.21
0.04
0.41

0.21
0.04
0.41

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR

ADMINISTRATIVE LEADTIME 6 PRODUCTION LEADTIME 4

CONTRACT DATES:

FY 95: Mar 95 FY 96: FY 97:

DELIVERY DATES:

FY 95: Jun 95 FY 96: FY 97:

INSTALLATION SCHEDULE:

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty

INPUT

OUTPUT

6
6

P-1 SHOPPING LIST

UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

ITEM NO 165

PAGE 21 OF 54

Page of Pages

REPORTS CONTROL SYMBOL DD-COMPARI 1092		UNCLASSIFIED		INDIVIDUAL MODIFICATION		DATE: February 1995																																							
MODIFICATION TITLE:		HALON / CFC MC# 1-92-08-3145																																											
MODELS OF SYSTEMS AFFECTED:		LARGE TUG																																											
DESCRIPTION/JUSTIFICATION:		FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISHING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPING, VALVES, NOZZLES, AND STORAGE BOTTLES																																											
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METHOD OF IMPLEMENTATION:		<table border="1"> <thead> <tr> <th>CONTRACTOR</th> <th>ADMINISTRATIVE LEADTIME</th> <th>PRODUCTION LEADTIME</th> </tr> </thead> <tbody> <tr><td></td><td>6</td><td>6</td></tr> </tbody> </table>						CONTRACTOR	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME		6	6																																
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P-1 SHOPPING LIST		<table border="1"> <thead> <tr> <th>ITEM NO 165</th> <th>PAGE</th> <th>22</th> <th>OF</th> <th>54</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>						ITEM NO 165	PAGE	22	OF	54																																	
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UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a																																											
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REPORTS CONTROL SYMBOL DD-COMPIAR 1092		UNCLASSIFIED										DATE: February 1995																																										
INDIVIDUAL MODIFICATION																																																						
MODIFICATION TITLE:		AIR CONDITIONER / CFC MC # 1-92-07-1002																																																				
MODELS OF SYSTEMS AFFECTED:		ANASM-189 (AIR CONDITIONER - SSN M918)																																																				
DESCRIPTION/JUSTIFICATION:		THE ARMY IS REQUIRED TO ELIMINATE, BY 1999, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.																																																				
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4Q/95																																																						
FINANCIAL PLAN (\$ in millions)		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$																																									
IPR Production Decision Production Contract Award 1st Production Hardware Delivery 1st Mod Kit Applied Last Mod Kit Applied		538	9.03	33	0.70							571	9.73																																									
ROT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits (Nonrecurring) Equipment Equipment (Nonrecurring) Engineering Change Orders Data Training Equipment Support Equipment Interim Contractor Support Installation Total Cost Installation Unit Cost (non-add) Other (Asbestos removal) Total Procurement Cost																																																						
METHOD OF IMPLEMENTATION:		DEPOT FIELD TEAM ADMINISTRATIVE LEADTIME: 6 PRODUCTION LEADTIME: 3																																																				
CONTRACT DATES:		FY 95 Nov 94 FY 96 FY 97																																																				
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MODIFICATION TITLE:		AIR CONDITIONER / CFC MC # 1-92-07-1004																																																																					
MODELS OF SYSTEMS AFFECTED:		AN/TSM-141 (AIR CONDITIONER - SSN M918)																																																																					
DESCRIPTION/JUSTIFICATION:		THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.																																																																					
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REPORTS CONTROL SYMBOL DD-COMPARI 1092		UNCLASSIFIED		INDIVIDUAL MODIFICATION												DATE: February 1995					
MODIFICATION TITLE:				AIR CONDITIONER / CFC MC # 1-92-07-1019																	
MODELS OF SYSTEMS AFFECTED:				ANASM-82 (AIR CONDITIONER - M773 12 PER SYSTEM)																	
DESCRIPTION/JUSTIFICATION:				THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEplete STRATOSPHERIC OZONE. THIS SYSTEM IS CURRENTLY DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONER, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.																	
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IPR Production Decision				PLANNED		ACTUAL															
Production Contract Award				QTR/YR		QTR/YR															
1st Production Hardware Delivery				30/94		10/94															
1st Mod Kit Applied				30/94		30/94															
Last Mod Kit Applied				30/95		30/94															
FINANCIAL PLAN (\$ in millions)				FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL	
Qty				0	Qty	0	Qty	0	Qty	0	Qty	0	Qty	0	Qty	0	Qty	0	Qty	0	Qty
ROTAE																					
PROCUREMENT				30		0.52		45		0.68										75 1.20	
Kit Quantity																					
Insulation Kits (Nonsecurings)																					
Equipment																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Interior Contractor Support																					
Insulation Total Cost				0.27																0.85	
Insulation Unit Cost (non-add)				0.01																	
Other																					
Total Procurement Cost				0.79																1.85	
METHOD OF IMPLEMENTATION:				DEPOT FIELD TEAM																	
CONTRACT DATES:				FY 95 Nov 94 FY 96 FY 97																	
DELIVERY DATES:				FY 95 Nov 94 FY 96 FY 97																	
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OUTPUT				30 23 12 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10																	
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REPORTS CONTROL SYMBOL DD-COMPAR 1092		UNCLASSIFIED										DATE February 1995																															
INDIVIDUAL MODIFICATION																																											
MODIFICATION TITLE:		REFRIGERATION / CFC MC # 1-93-08-3156																																									
MODELS OF SYSTEMS AFFECTED:		LANDING CRAFT, UTILITY 2000 (LCU 2000)																																									
DESCRIPTION/JUSTIFICATION:		REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS 1 OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.																																									
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CONTRACT DATES:		<table border="1"> <thead> <tr> <th></th> <th>FY 95</th> <th>M= 95</th> <th>FY 96</th> <th>FY 97</th> <th>FY 98</th> <th>FY 99</th> <th>FY 00</th> <th>FY 01</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>													FY 95	M= 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01																					
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DELIVERY DATES:		<table border="1"> <thead> <tr> <th></th> <th>FY 95</th> <th>Aug 95</th> <th>FY 96</th> <th>FY 97</th> <th>FY 98</th> <th>FY 99</th> <th>FY 00</th> <th>FY 01</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>													FY 95	Aug 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01																					
	FY 95	Aug 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01																																			
INSTALLATION SCHEDULE:		<table border="1"> <thead> <tr> <th></th> <th>FY 95</th> <th>FY 96</th> <th>FY 97</th> <th>FY 98</th> <th>FY 99</th> <th>FY 00</th> <th>FY 01</th> <th>TO COMPLETE</th> <th>TOTAL</th> </tr> <tr> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>													FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY										
	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL																																		
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY																																		
INPUT		35																																									
OUTPUT		35																																									
P-1 SHOPPING LIST																																											
ITEM NO 165																																											
UNCLASSIFIED																																											
INDIVIDUAL MODIFICATION EXHIBIT P-3a																																											
Page of Pages																																											

REFRIGERATION / CFC MC # 1-93-08-3157

LOGISTICS SUPPORT VESSEL (LSV)

REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	PLANNED	ACTUAL
	QTR/YR	QTR/YR

IPR Production Decision
Production Contract Award
First Production Hardware Delivery
First Modification Kit Applied
Last Modification Kit Applied

FINANCIAL PLAN (\$ in millions)

[illegible]

ADY&E

PROCUREMENT

Item	Unit	Quantity	Unit Price	Total Price
Installation Kit	Kit	1	0.28	0.28
Installation Kit (Nonrecuring)	Kit	1	0.28	0.28
Equipment	Equipment	1	0.28	0.28
Equipment (Nonrecuring)	Equipment	1	0.28	0.28
Engineering Change Orders	Engineering Change Orders	1	0.28	0.28
Data	Data	1	0.28	0.28
Training Equipment	Training Equipment	1	0.28	0.28
Support Equipment	Support Equipment	1	0.28	0.28
Marketing Contractor Support	Marketing Contractor Support	1	0.28	0.28
Installation Total Cost	Installation Total Cost	1	0.28	0.28
Installation Unit Cost (non-add)	Installation Unit Cost (non-add)	1	0.28	0.28
Other	Other	1	0.28	0.28
Total Procurement Cost	Total Procurement Cost	1	0.28	0.28

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR	ADMINISTRATIVE LEADTIME	PRODUCTION LEADTIME	6
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CONTRACT DATES:

FY 95:	Mar 95	FY 96:
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DELIVERY DATES:

FY 95:	AUG 95	FY 96:	FY 97:
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INSTALLATION SCHEDULE:[illegible]

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a	Page of Pages
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UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE: HET HIGH RATION / C/C MC # 1 93 00 3150

MODELS OF SYSTEMS AFFECTED: LANDING CRAFT, UTILITY 1800 (LCU 1800)

DESCRIPTION/JUSTIFICATION: REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS 1 OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

FINANCIAL PLAN (in millions)

PY	QTY	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
		QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY

RDTEE

PROCUREMENT

- Kit Quantity
- Installation Kits
- Installation Kits (Nonsecuring)
- Equipment
- Equipment (Nonsecuring)
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACTOR

ADMINISTRATIVE LEADTIME

6

PRODUCTION LEADTIME

6

CONTRACT DATES:

FY 95: Mar 95 FY 96: FY 97:

DELIVERY DATES:

FY 95: Aug 95 FY 96: FY 97:

INSTALLATION SCHEDULE:

PY	QTY	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
		QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY

INPUT

13

OUTPUT

13

P-1 SHOPPING LIST

INDIVIDUAL MODIFICATION
EXHIBIT P-3a

UNCLASSIFIED

ITEM NO 165

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REPORTS CONTROL SYMBOL		UNCLASSIFIED		INDIVIDUAL MODIFICATION										DATE February 1995					
DD-COMPARI 1092																			
MODIFICATION TITLE:		REFRIGERATION / CFC MC # 1:93-08-3159																	
MODELS OF SYSTEMS AFFECTED:		TUG, 128'																	
DESCRIPTION/JUSTIFICATION:		REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS 1 OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.																	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																			
IPR Production Decision		PLANNED		ACTUAL															
Production Contract Award		QTY/YR		QTY/YR															
First Production Hardware Delivery		20/95		20/95															
First Modification Kit Applied		30/95		30/95															
Last Modification Kit Applied		40/95		40/95															
		10/97		10/97															
FINANCIAL PLAN (\$ in millions)		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL	
QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	
ROUTINE		6		0.12														6 0.12	
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kits (Nonrecuring)																			
Equipment																			
Equipment (Nonrecuring)																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Interim Contractor Support																			
Installation Total Cost																		0.16	
Installation Unit Cost (non-add)																		0.28	
Other																			
Total Procurement Cost																			
METHOD OF IMPLEMENTATION:		CONTRACTOR		ADMINISTRATIVE LEADTIME		6		PRODUCTION LEADTIME		6									
CONTRACT DATES:		FY 95: Mar 95		FY 96:		FY 97:													
DELIVERY DATES:		FY 95: Aug 95		FY 96:		FY 97:													
INSTALLATION SCHEDULE:		FY 95: 1 2		FY 96: 3 4 1 1 2		FY 97: 3 4 1 2		FY 98: 3 4 1 2		FY 99: 3 4 1 2		FY 00: 3 4 1 2		FY 01: 3 4 1 2		TC		Total	
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OUTPUT				1 1 1 1 2		1 1 1 1 2		1 1 1 1 2		1 1 1 1 2		1 1 1 1 2		1 1 1 1 2		1 1 1 1 2		6	
P-1 SHOPPING LIST		ITEM NO 165		PAGE 34 OF 54		UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a		Page of Pages									

DATE February 1995

P.1 SHOPPING LIST				UNCLASSIFIED		INDIVIDUAL MODIFICATION EXHIBIT P-3a	
ITEM NO.	PAGE	OF		Page	of	Pages	
165	35	54					

REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		UNCLASSIFIED		INDIVIDUAL MODIFICATION		DATE February 1995																																																																																																																																					
MODIFICATION TITLE:		REFRIGERATION / CFC MC # 1-93-08-3161																																																																																																																																									
MODELS OF SYSTEMS AFFECTED:		TUG, 65'																																																																																																																																									
DESCRIPTION/JUSTIFICATION:		REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.																																																																																																																																									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		<table border="1"> <thead> <tr> <th colspan="2">PLANNED</th> <th colspan="2">ACTUAL</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> <tr> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> <th colspan="2">QTR/YR</th> </tr> <tr> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> <th colspan="2">20/95</th> </tr> <tr> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> <th colspan="2">30/95</th> </tr> <tr> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> <th colspan="2">40/95</th> </tr> <tr> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> <th colspan="2">10/97</th> </tr> </thead> </table>						PLANNED		ACTUAL																				QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		QTR/YR		20/95		20/95		20/95		20/95		20/95		20/95		20/95		20/95		20/95		20/95		20/95		30/95		30/95		30/95		30/95		30/95		30/95		30/95		30/95		30/95		30/95		30/95		40/95		40/95		40/95		40/95		40/95		40/95		40/95		40/95		40/95		40/95		40/95		10/97		10/97		10/97		10/97		10/97		10/97		10/97		10/97		10/97		10/97		10/97	
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FINANCIAL PLAN (\$ in millions)		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL																																																																																																																									
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METHOD OF IMPLEMENTATION:		CONTRACTOR		ADMINISTRATIVE LEADTIME		6		PRODUCTION LEADTIME		6																																																																																																																																	
CONTRACT DATES:		FY 95: Mar 95		FY 96:		FY 97:																																																																																																																																					
DELIVERY DATES:		FY 95: Aug 95		FY 96:		FY 97:																																																																																																																																					
INSTALLATION SCHEDULE:		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETE		TOTAL																																																																																																																									
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OUTPUT		3		3		3		3		3		3		3		3		15																																																																																																																									

P-1 SHOPPING LIST

REPORTS CONTROL SYMBOL
DD FORM 1092

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE:
REFRIGERATION / CFC MC # 1-93-08-3182

MODELS OF SYSTEMS AFFECTED:
CRANE, 100 TON

DESCRIPTION/JUSTIFICATION:
REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- IPR Production Decision
- Production Contract Award
- First Production Hardware Delivery
- First Modification Kit Applied
- Last Modification Kit Applied

PLANNED
QTY/YR

20/95
20/96
10/96
20/96
30/97

FINANCIAL PLAN (\$ in millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
17									17
0.31									0.31

RD&E

PROCUREMENT

- Kit Quantity
- Installation Kits (Nonrecuring)
- Equipment
- Equipment (Nonrecuring)
- Engineering Change Orders
- Draws
- Training Equipment
- Support Equipment
- Interim Contractor Support
- Installation Total Cost
- Installation Unit Cost (non-add)
- Other

Total Procurement Cost

METHOD OF IMPLEMENTATION:

CONTRACT DATES:

FY 95: Mar 95

FY 97:

DELIVERY DATES:

FY 95: Dec 95

FY 97:

INSTALLATION SCHEDULE:

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
1	2	3	2	2	2	2	2	4	17
0.39	0.02	0.70							0.39
									0.70

INPUT

OUTPUT

P-1 SHOPPING LIST

UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-3a	Page of Pages
54	37	54

ITEM NO 165

UNCLASSIFIED										DATE February 1995																																																																																																																																																																						
INDIVIDUAL MODIFICATION																																																																																																																																																																																
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DD-COMPIAR 1092																																																																																																																																																																																
MODIFICATION TITLE:		REFRIGERATION / CFC MC # 1-93-08-3184																																																																																																																																																																														
MODELS OF SYSTEMS AFFECTED:		FLOATING MACHINE SHOP																																																																																																																																																																														
DESCRIPTION/JUSTIFICATION:		REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS 1 OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.																																																																																																																																																																														
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FINANCIAL PLAN (\$ in millions)		<table border="1"> <thead> <tr> <th></th> <th>FY 95</th> <th>FY 96</th> <th>FY 97</th> <th>FY 98</th> <th>FY 99</th> <th>FY 00</th> <th>FY 01</th> <th>TO COMPLETE</th> <th>TOTAL</th> </tr> <tr> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TO COMPLETE	TOTAL	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty																																																																																																																																																	
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PAGE 39 OF 54										Page of Pages																																																																																																																																																																						
ITEM NO 165																																																																																																																																																																																

UNCLASSIFIED

INDIVIDUAL MODIFICATION

DATE February 1995

MODIFICATION TITLE:

Medium Girder Bridge Upgrade

MODELS OF SYSTEMS AFFECTED:

Reinforcement Set; Medium Girder Bridge (M2000)

DESCRIPTION/JUSTIFICATION:

The Reinforcement Set has under gone a configuration change to enhance the operational and mission capabilities of the Medium Girder Bridge System. These modifications added additional components to the set. This program will procure these components and deliver them to fielded units to upgrade the existing Reinforcement Sets to the new set configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Material Change Approved
Production Contract Awarded
Kit Delivery

PLANNED
QTR/YR
10/95
20/95
30/95

ACTUAL
QTR/YR

FINANCIAL PLAN (in millions)

QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	TO COMPLETE	TOTAL	
16	1.59															16	1.59

ROUTINE

PROCUREMENT

Kit Quantity
Installation Kit
Installation Kit (Nonrecurring)
Equipment
Equipment (Nonrecurring)
Engineering Change Orders
Data
Training Equipment
Support Equipment
Interim Contractor Support
Installation Total Cost
Installation Unit Cost (non-add)
Other

Total Procurement Cost

1.59

METHOD OF IMPLEMENTATION:

Procure and field to the MGB users additional components.
As this is a set upgrade, installation of components is not required.

ADMINISTRATIVE LEADTIME: 0

PRODUCTION LEADTIME: 3

CONTRACT DATES:

FY 95: Mar 95 FY 96:

DELIVERY DATES:

FY 95: Jun 95 FY 96:

INSTALLATION SCHEDULE:

FY	1	2	3	4	1	2	3	4	1	2	3	4	TC	Total

INPUT

OUTPUT

P-1 SHOPPING LIST

ITEM NO 165

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UNCLASSIFIED

INDIVIDUAL MODIFICATION
EXHIBIT P-3a
Page of Pages

INDIVIDUAL MODIFICATION

DATE February 1995

INDIVIDUAL MODIFICATION

INDIVIDUAL MODIFICATION

	60	0.42	60	0.42
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00
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16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00
63	0.00	0.00	0.00	0.00
64	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00
66	0.00	0.00	0.00	0.00
67	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00
71	0.00	0.00	0.00	0.00
72	0.00	0.00	0.00	0.00
73	0.00	0.00	0.00	0.00
74	0.00	0.0		

[illegible]

PRODUCTION LEADTIME: 2

FY 97:

FY 07:

[illegible]

15 50

15 15 80

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Modification Kits (M157) (Smoke Obscuration) ()								
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01		
QUANTITY			502							
COST(IN MILLIONS)			2.8							
DESCRIPTION: The current fielded mobile smoke generator applications include the M157 Smoke Generator Sets (SGS) and the M1059 Smoke Generator Carrier (SGC). The M157A1 SGS materiel change incorporated user identified safety and operational improvements to the fielded system. The M157A1E1 change will provide multifuel capability.										
JUSTIFICATION: The modification kits will upgrade items to the M157A2 configuration providing safety, operational and multifuel improvements.										
DD Form 2454, JUL 88		P-1 SHOPPING LIST				Page of		Pages		
		ITEM NO 165 PAGE NO 43 OF 54						EXHIBIT P-40		

INDIVIDUAL MODIFICATION

February 1995

MODIFICATION TITLE: Retrofit of M157 and M1059 to M157A2 Multifuel
 MODELS OF SYSTEM AFFECTED: M157 Smoke Generator Set and M1059 Smoke Generator Carrier
 DESCRIPTION/JUSTIFICATION: Upgrade Includes Safety, Operational and Multifuel Improvements
 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PPQT Complete Jul 94/Milestone III
 Dec 94

FINANCIAL PLAN: (\$ in millions)	FY94	FY95	FY96	FY97	FY98	BY2+2	BY2+3	BY2+4	TC	TOTAL
	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$	QTY\$

RDTE 6/2.780

6/2.780

PROCUREMENT

Kit Quantity	502
Installation Kits	2.480
Installation Kit Nonrecurring	
Equipment	
Equipment Nonrecurring	
Engineering Change Orders	0.289
Data	
Training Equipment	
Support Equipment	
Interim Contractor Support	
Installation Total Cost	
Installation Unit Cost (non-add)	
Other	

502
2.480

Total Procurement Cost

502/2.769

502/2.769

METHOD OF IMPLEMENTATION: Depot ADMIN LEADTIME 4 months PRODUCTION LEADTIME: 9 months
 CONTRACT DATES: Current Year: Budget Year 1: Jan 96 Budget Year 2: _____
 DELIVERY DATES: Current Year: Budget Year 1: Sep 96 Budget Year 2: _____

INSTALLATION	FY94	FY95	FY96	FY97	FY98	TC	TOTAL
INPUT:	1	2	3	4	1	2	3
OUTPUT:	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	502
	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	48/72/72/70	502

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995
Appropriation/Budget Activity Other Procurement Army 3 - Other Support Equipment		P-1 Item Nomenclature MODIFICATION OF IN-SVC EQUIPMENT (MA4500)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							
COST (MILLIONS)		6.1	7.0	4.0	4.0	3.9	4.4
<p>DESCRIPTION: Micro-climatic Conditioning System (MCS) PIP Number: 1-83-08-4008. The MCS is a self-contained unit designed to cool and ventilate the heavy work suit worn by the M9 ACE operator while the vehicle is exposed to a Nuclear, Biological, Chemical (NBC) environment. The entire M9 ACE fleet will receive the Installation Kit (Group A) consisting of harnesses, filters, control box, and mounting hardware. The Installation Kit will be installed by a depot-level team. The MCS (Group B) consists of the MCS cooling unit and ballistic shielding. The MCS Equipment can be easily installed or moved between vehicles once all vehicles have received the Installation Kit. The MCS equipment will be installed at unit level by unit personnel. M9 ACE Block Modification SIP 3 consists of ten hardware improvements. This includes related application and data costs. The list of improvements is as follows: final drive redesign, hub/sprocket redesign, hardened track pin, steel dozer blade, actuator mounting rings, bowl access plates, automatic track tensioner, automatic blade folder, hydraulic troubleshooting test points and improved winch.</p> <p>JUSTIFICATION: The M9 ACE will be deployed in theaters experiencing a wide range of weather conditions including ambient temperatures which frequently exceed 85 degrees Fahrenheit. The M9 ACE MCS enhances the lone operator's performance and the vehicle's survivability because potentially life threatening conditions such as heat exhaustion or heat stroke may be averted with the help of an efficient personal cooling system. M9 ACE Block Modification SIP 3 are essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness and maintenance of the M9 ACE.</p>							
DD Form 2454, Jul 88		P-1 SHOPPING LIST				Exhibit P-40	
		ITEM NO 165 PAGE NO. 45 OF 54					

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET										DATE: February 1995
Appropriation/Budget Activity Other Procurement Army 3- Other Support Equipment				P-1 Item Nomenclature MODIFICATION KITS M9 ARMORED COMBAT EARTHMOVER (ACE)							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01			
QUANTITY											
COST (MILLIONS)		4.5	5.7	2.1	2.1	3.9	4.1	3.9			
ITEM NAME											
M9 ARMORED COMBAT EARTHMOVER	MICRO CLIMATIC CONDITIONING SYSTEM MC#1 83 08 4008										
M9 ARMORED COMBAT EARTHMOVER	BLOCK MODIFICATION PHASE 3										
DD Form 2454, Jul 88											
P-1 SHOPPING LIST											
ITEM NO 165 PAGE NO. 46 OF 54											
Exhibit P-40											

Reports Control Symbol DD-COMP (AR 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995																			
Appropriation/Budget Activity Other Procurement Army 3 - Other Support Equipment				P-1 Item Nomenclature INSTALLATION OF MODIFICATION KITS M9 ARMORED COMBAT EATHMOVER (ACE)																							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01																			
QUANTITY																											
COST (MILLIONS)		1.6	1.3	1.9	1.9	0	.3	.5																			
<table border="0"> <tr> <td>ITEM</td> <td>NAME</td> <td>FY94</td> <td>FY95</td> <td>FY96</td> <td>FY97</td> </tr> <tr> <td>M9 ARMORED COMBAT EARTHMOVER</td> <td>MICRO CLIMATIC CONDITIONING SYSTEM MC# 1 83 08 4008</td> <td>0.000</td> <td>1.624</td> <td>1.265</td> <td>0.000</td> </tr> <tr> <td>M9 ARMORED COMBAT EARTHMOVER</td> <td>BLOCK MODIFICATION PHASE 3</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>1.849</td> </tr> </table>										ITEM	NAME	FY94	FY95	FY96	FY97	M9 ARMORED COMBAT EARTHMOVER	MICRO CLIMATIC CONDITIONING SYSTEM MC# 1 83 08 4008	0.000	1.624	1.265	0.000	M9 ARMORED COMBAT EARTHMOVER	BLOCK MODIFICATION PHASE 3	0.000	0.000	0.000	1.849
ITEM	NAME	FY94	FY95	FY96	FY97																						
M9 ARMORED COMBAT EARTHMOVER	MICRO CLIMATIC CONDITIONING SYSTEM MC# 1 83 08 4008	0.000	1.624	1.265	0.000																						
M9 ARMORED COMBAT EARTHMOVER	BLOCK MODIFICATION PHASE 3	0.000	0.000	0.000	1.849																						
DD Form 2454, Jul 88																											
P-1 SHOPPING LIST																											
ITEM NO 165 PAGE NO. 47 OF 54																											
Exhibit P-40																											

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		UNCLASSIFIED WEAPON SYSTEM MODIFICATION - SUMMARY		DATE: February 1985	
APPROPRIATION/BUDGET ACTIVITY Other Procurement Army 3 - Other Support Equipment		P-1 ITEM NOMENCLATURE MODIFICATION OF IN-SVC EQUIPMENT (OPA 3) (MA 4500)			
SYSTEM/ MODIFICATION		(TOA DOLLARS IN MILLIONS)			
	FY94	FY95	FY96	FY97	
M9 ACE MODIFICATION					
MICRO-CLIMATIC CONDITIONING	0.000	6.106	1.428	0.000	
BLOCK MODIFICATION - PHASE 3	0.000	0.000	5.616	3.994	
SYSTEM TOTALS		0.000	6.104	7.044	3.994
P-1 SHOPPING LIST		UNCLASSIFIED		EXHIBIT P-3	
ITEM NO 165		PAGE NO 48 OF 54			

MODIFICATION OF WEAPONS SYSTEMS		DATE: February 1995																											
MODIFICATION TITLE: Micro-Climatic Conditioning System (MCS), 1-83-06-4008																													
MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)																													
DESCRIPTION/JUSTIFICATION: This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.																													
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <table border="1"> <thead> <tr> <th></th> <th><u>PLANNED</u></th> <th><u>ACCOMPLISHED</u></th> </tr> </thead> <tbody> <tr> <td>Preliminary Design Review:</td> <td>3Q/83</td> <td>3Q/83</td> </tr> <tr> <td>Critical Design Review:</td> <td>3Q/88</td> <td>3Q/88</td> </tr> <tr> <td>Contractor Test and Evaluation:</td> <td>2Q/91</td> <td>2Q/91</td> </tr> <tr> <td>Development Test and Evaluation:</td> <td>4Q/91</td> <td>4Q/91</td> </tr> <tr> <td>Production Decision</td> <td>4Q/91</td> <td>4Q/91</td> </tr> <tr> <td>TDP Available:</td> <td>1Q/92</td> <td>2Q/92</td> </tr> <tr> <td>Hardware Delivery</td> <td>1Q/94</td> <td>2Q/94</td> </tr> <tr> <td>Field Application Begins</td> <td>1Q/95</td> <td></td> </tr> </tbody> </table>				<u>PLANNED</u>	<u>ACCOMPLISHED</u>	Preliminary Design Review:	3Q/83	3Q/83	Critical Design Review:	3Q/88	3Q/88	Contractor Test and Evaluation:	2Q/91	2Q/91	Development Test and Evaluation:	4Q/91	4Q/91	Production Decision	4Q/91	4Q/91	TDP Available:	1Q/92	2Q/92	Hardware Delivery	1Q/94	2Q/94	Field Application Begins	1Q/95	
	<u>PLANNED</u>	<u>ACCOMPLISHED</u>																											
Preliminary Design Review:	3Q/83	3Q/83																											
Critical Design Review:	3Q/88	3Q/88																											
Contractor Test and Evaluation:	2Q/91	2Q/91																											
Development Test and Evaluation:	4Q/91	4Q/91																											
Production Decision	4Q/91	4Q/91																											
TDP Available:	1Q/92	2Q/92																											
Hardware Delivery	1Q/94	2Q/94																											
Field Application Begins	1Q/95																												
P-1 Shopping List Item No.: 165		Exhibit P-3A																											

REPORTS CONTROL SYMBOL DD-COMP(AR)1082		UNCLASSIFIED INDIVIDUAL MODIFICATIONS		DATE: February 1995							
MODIFICATION TITLE: Micro-Climatic Conditioning System (MCS), 1-83-08-4008											
MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)											
DESCRIPTION/JUSTIFICATION: This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.											
DEVELOPEMENT STATUS/MAJOR DEVELOPMENT MILESTONES:											
FINANCIAL PLAN(\$ in Millions)		FY94/Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TO COMPLETE	TOTAL
QTY		\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY
RD&E		84	0.7	374	2.1	0					458
PROCUREMENT											
Kit Quantity											
Installation Kits											2.8
Engineering Support						0.1					0.3
TPF/NET						0.3					0.3
Installation Kits (Nonrecurring)											
Equipment (Nonrecurring)						0.0					7.4
Installation Total Costs		5.2	34	2.2	1.3	195	1.3				448
Installation Unit Cost(Non-add)			253	(6.1)		(1.4)					2.6
Installation of Hardware											
PY Equipment											
FY95 Equipment											
FY96 Equipment											
FY97 Equipment											
FY98 Equipment											
FY99 Equipment											
FY00 Equipment											
FY01 Equipment											
To Complete Equipment											2.9
Total Installation Costs		5.9	253	1.6	195	1.3					13.4
TOTAL PROCUREMENT COST				6.1	1.4						
METHOD OF IMPLEMENTATION:		Depot Team - Field Application				ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME					
CONTRACT DATES:		FY94: MAY 95				FY95: MAY 96					
DELIVERY DATES:		FY94: JUL 95				FY95: JUL 96					
INSTALLATION SCHEDULE:		PY	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
		1	2	3	4	1	2	3	4	1	4
INPUT		35				49	60	180	124		448
OUTPUT				35	49	30	120	120	94		448
ITEM 165		P-1 SHOPPING LIST				INDIVIDUAL MODIFICATION EXHIBIT P-3a					
		PAGE 50 OF 54									

MODIFICATION INSTALLATION SUMMARY

February 1995

(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
MICRO-CLIMATIC COOLING SYSTEM MOD KITS	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3
INSTALLATION OF MODIFICATIONS	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	2.6

MODIFICATION OF WEAPONS SYSTEMS		DATE: February 1995
MODIFICATION TITLE:	M9 ARMORED COMBAT EARTHMOVER (ACE) BLOCK MODIFICATION - PHASE 3	
MODELS OF SYSTEMS AFFECTED	M9 Armored Combat Earthmover (M9 ACE)	
DESCRIPTION/JUSTIFICATION:	<p>This modification program consist of ten hardware improvements to the M9 ACE system. This also includes application, program management, and data costs. These are immediate essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness, and maintenance of the M ACE. Each hardware improvement is applied to 448 vehicles. The steel dozer blade will be installed in conjunction with blade folder. Winches will be installed at unit level.</p>	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		
	<u>PLANNED</u>	<u>ACCOMPLISHED</u>
Preliminary Design Review:	4Q/95	
Critical Design Review:	N/A	
Contractor Test and Evaluation:	2Q/96	
Development Test and Evaluation:	N/A	
Production Decision	N/A	
TDP Available:	1Q/96	
Hardware Delivery	2Q/97	
Field Application Begins	3Q/97	
P-1 Shopping List Item No.: 165		Exhibit P-3A
		Page 52 of 54

REPORTS CONTROL SYMBOL		UNCLASSIFIED		DATE: February 1988													
DD-COMPARI002		MODIFICATION TITLE:		MODIFICATION MODIFICATIONS													
BLOCK MODIFICATION TITLE:		Block Modification Phase 3															
MODELS OF SYSTEMS AFFECTED:		M9 Armored Combat Earthmover (M9 ACE)															
DESCRIPTION/JUSTIFICATION:		This modification program consists of ten hardware improvements to the M9 ACE system. This also includes application, program management, and data costs. These are immediate essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness and maintenance of the M9 ACE.															
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																	
FINANCIAL PLAN(\$in Millions)		FY84PRIOR	FY85	FY86	FY87	FY88	FY89	FY90	FY01	TO COMPLETE	TOTAL						
RDT&E		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$						
PROCUREMENT																	
Kit Quantity																	
Installation Kits		2024	5.6	576	2.1	288	2.1	339	3.9	352	4.1	413	3.9	40	0.3	4032	22.0
Installation Kits (Nonrecurring)																	
Equipment (Nonrecurring)																	
Installation Total Costs		1344	1.9	1344	1.9	0	0	171	0.3	277	0.5	3136	4.6	3136	4.6		
Installation Unit Cost(Non-add)																	
PY Equipment																	
FY95 Equipment																	
FY96 Equipment																	
FY97 Equipment																	
FY98 Equipment																	
FY99 Equipment																	
FY00 Equipment																	
FY01 Equipment																	
To Complete Equipment																	
Total Installation Costs		1344	1.9	1344	1.9	0	0	171	0.3	277	0.5	3136	4.6	3136	4.6		
TOTAL PROCUREMENT COST		5.6	4.0	3.9	3.9	4.4	4.4	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6		
METHOD OF IMPLEMENTATION:		Depot Team - Field application		ADMINISTRATIVE LEADTIME: 2		PRODUCTION LEADTIME		8									
CONTRACT DATES:		FY96 FEB 96		FY97:		FY98:		FY98:									
DELIVERY DATES:		FY96: FEB 97		FY97:		FY98:		FY98:									
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4	TOTAL		
INPUT		672	336	336	336	336	336	336	336	336	336	336	336	336	3136		
OUTPUT		336	336	336	336	336	336	336	336	336	336	336	336	336	3136		
P-1 SHOPPING LIST		ITEM 185		PAGE 53 OF 54		INDIVIDUAL MODIFICATION		EXHIBIT P-3a									

MODIFICATION INSTALLATION SUMMARY										February 1995
(TOA, Dollars In Millions)										
SYSTEM	MODIFICATION	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
SYSTEM	BLOCK	0.0	0.0	5.6	2.1	2.1	3.9	4.1	3.9	21.7
MODIFICATION										
PHASE 3										
SYSTEM	BLOCK	0.0	0.0	0.0	1.9	1.9	0.0	0.3	0.5	4.6
MODIFICATION										
INSTALLATION										

REPORTS CONTROL SYMBOL DD-COMP(AR) 1082		UNCLASSIFIED										DATE FEBRUARY 1995	
BUDGET ITEM JUSTIFICATION SHEET		P-1 ITEM NOMENCLATURE											
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		Production Base Support (MA0450)											
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01				
QUANTITY													
COST (IN MILLIONS)		9.9	1.9	1.8	2.0	2.4	2.5	2.7	2.7				

DESCRIPTION: This program sustains and improves our current capabilities through the purchase of equipment, instrumentation, and facilities. Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System equipment, and Telemetry equipment used in production, production testing and depot level maintenance of other support equipment.

JUSTIFICATION: Funding in FY96 and FY97 will be used for replacement of equipment and instrumentation used in production testing at Yuma, Aberdeen Proving Grounds and the Cold Region Test Center, Ft. Greely, Alaska.

A detailed summary listing of projects is attached.

SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES SUBJECTS
APPROPRIATION: Other Procurement Army, Activity 3
TITLE: Production Base Support DATE: FEBRUARY 1995

PROJECT NUMBER	TITLE/LOCATION	FY94 (DOLLARS IN MILLIONS)	FY95	FY96	FY97
09X5063	PSR Aberdeen Proving Ground Production Support and Equipment Replacement (PSR) of existing test equipment and instrumentation used to support, record and analyze performance data during production testing.	0.705	0.227	0.700	0.700
09X5068	PSR, Yuma Proving Ground Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System Equipment, and Telemetry Equipment to support data gathering for test support.	1.401	0.201	0.835	0.770
09X5168	MOD, Yuma Proving Ground Modernization of existing obsolete, unrepairable test equipment and instrumentation used during production testing of Army materiel.	0.243	0.302		
09X5070	PSR, Cold Region Test Center Replacement of existing test equipment, instrumentation, provide telemetry data transmission, and telephoto lens for IR Imaging Camera to analyze performance data during cold weather testing of other support equipment.	0.300	0.199	0.300	0.521
09X5066	PSR, Dugway Proving Ground Replacement, rehabilitation of existing, obsolete, unreliable or unrepairable test equipment used for production testing of chemical defense materiel.	0.725			
09X5163	Mod Aberdeen Proving Ground Modernization and upgrade of test instrumentation and test support equipment used for production testing of other support equipment.	0.800	0.944		

SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES PROJECTS

APPROPRIATION: Other Procurement Army, Activity 3

TITLE: Production Base Support DATE: FEBRUARY 1995

PROJECT NUMBER	TITLE/LOCATION	FY94 (DOLLARS IN MILLIONS)	FY95	FY96	FY97
	Hazardous Minimization Project Office Corps of Engineers	1.700			
	Hazardous Minimization Project Office Secretary of Army	4.035			

PRODUCTION BASE SUPPORT TOTAL	9.909	1.873	1.835	1.991
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UNCLASSIFIED										DATE		FEBRUARY 1985															
REPORTS CONTROL SYMBOL																											
DD-COMP(AR)1092																											
BUDGET ITEM JUSTIFICATION SHEET																											
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE																	
OTHER PROCUREMENT: ARMY 3										SPECIAL EQUIPMENT FOR USER TESTING																	
OTHER SUPPORT EQUIPMENT										(MA6700)																	
										FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01			
QUANTITY																											
COST (IN MILLIONS)										4.9		10.4		9.2		14.1		15.8		18.4		20.1		30.3			
<p>DESCRIPTION: THIS PROGRAM PROVIDES FUNDING FOR MAJOR USER TEST INSTRUMENTATION, ARMY THREAT SIMULATORS, AND OPERATIONAL TEST AND EVALUATION SUSTAINING INSTRUMENTATION. MAJOR USER TEST INSTRUMENTATION AND ARMY THREAT SIMULATORS SUPPORT FOR OPERATIONAL TESTING (OT) AND FORCE DEVELOPMENT TESTING AND EXPERIMENTATION (FDT).</p> <p>PROCUREMENTS ARE NORMALLY FOR SMALL QUANTITIES, FREQUENTLY ONE ITEM. MAJOR USER TEST INSTRUMENTATION ACQUISITIONS ARE TYPICALLY PRODUCTION RUNS OF INSTRUMENTATION EQUIPMENT DEVELOPED UNDER RDT&E FUNDED CONTRACTS.</p> <p>TYPICAL ARMY THREAT SIMULATOR ACQUISITIONS ARE COMMERCIAL END ITEMS. THESE ARE USED AS COMPONENTS IN THREAT SIMULATORS. WHEN AVAILABLE, FOREIGN/THREAT SYSTEMS AND END ITEMS ARE ACQUIRED.</p> <p>OT&E SUSTAINING INSTRUMENTATION PROCURES LOW DOLLAR AUGMENTATIONS AND REPLACEMENTS FOR OBSOLETE OR TECHNICALLY DEFICIENT EQUIPMENT.</p> <p>JUSTIFICATION:</p> <p>THE THREAT SIMULATOR EFFORT IN FY86-87 WILL CONTINUE PROCUREMENTS IN: THE XM155 THREAT AIR DEFENSE SYSTEM, XM1AR, THE TS DIAGNOSTIC/FMS, XMHKSHJS/ADVANCED AIRBORNE JAMMER, THE XMC3S COMMAND AND CONTROL SYSTEMS, AND THE XM17S/XM18A/S THREAT AIR DEFENSE SYSTEMS.</p> <p>IN FY86 OPTEC'S OPERATIONAL TEST INSTRUMENTATION PROGRAM (OTIP) CONTINUES PROCUREMENT OF A TARGET IDENTIFICATION AND RTCA PAIRING SYSTEM FOR ARMORED VEHICLE WEAPON SYSTEMS THAT IS EFFECTIVE IN BATTLEFIELD OBSCURANT: SMOKE, DUST, AND FOG. IN FY97 OPTEC'S OTIP COMPLETES THE PROCUREMENT OF NON-INTRUSIVE DATA COLLECTION SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT AND OF A VIDEO IMAGING AND PROCESSING SYSTEM. IT CONTINUES PROCUREMENT OF FOREIGN ASSOCIATED END ITEMS OF EQUIPMENT TO SUPPORT REALISTIC OPERATIONAL TESTING.</p> <p>MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS)</p> <p>THE MAIS FY87 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY.</p>																											
DD Form 2454, JUL 88										P-1 SHOPPING LIST										UNCLASSIFIED				Page 1 of 1		Pages	
ITEM NO 168										PAGE NO 1										OF 18						EXHIBIT P-40	

REPORTS CONTROL SYMBOL DD-COM(ARI)1092		UNCLASSIFIED		DATE FEBRUARY 1995				
BUDGET ITEM JUSTIFICATION SHEET								
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE THREAT SIMULATORS - SPECIAL EQUIPMENT FOR USER TEST (MAG700)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	2.5	6.8	5.9	3.3	3.2	3.1	4.6	5.9
<p>DESCRIPTION: THE ACQUISITION STRATEGY USED BY THE ARMY THREAT SIMULATOR PROGRAM IS TO PROCURE ACTUAL FOREIGN HARDWARE. THE SECOND OPTION IS TO USE NON DEVELOPMENTAL ITEMS (NDI) TO THE MAXIMUM EXTENT POSSIBLE (FOR EXAMPLE, CHASSIS, SUBSYSTEMS, COMMERCIAL EQUIPMENT, OR ACTUAL THREAT WEAPONS) WHICH INTEGRATES INTO A THREAT SIMULATION DESIGN. THE HIGH PROBABILITY OF ACQUIRING NDI EQUIPMENT HAS LED TO PROGRAMMING OF PROCUREMENT FUNDS TO RESOURCE THIS PORTION OF THE PROJECT EQUIPMENT WHICH SUPPORTS US ARMY MAJOR SYSTEM OPERATIONAL TESTING SUCH AS THE J-TIDS, MLRS SADARM V, AVENGER, APACHE LONGBOW, OH-58 ARMED, COMMANCHE (RAH66) AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE) WARNING RECEIVER SYSTEMS. THREAT SIMULATOR DIAGNOSTIC EQUIPMENT SUPPORTS VALIDATION, OPERATIONAL PERFORMANCE MONITORING, CALIBRATION, AND MAINTENANCE.</p> <p>JUSTIFICATION: THE ARMY THREAT SIMULATOR PROGRAM PROCURES REALISTIC THREAT SIMULATORS OR STAND ALONE COMPONENTS OF SIMULATORS FOR ARMY TEST ORGANIZATIONS. SIMULATOR PROCUREMENT IS RESPONSIVE TO OFFICE OF THE SECRETARY OF DEFENSE AND GENERAL ACCOUNTING OFFICE CONCERNS THAT THE ARMY CONDUCT OPERATIONAL TESTING IN A REALISTIC THREAT ENVIRONMENT.</p> <p>THE EFFORT IN FY96-97 WILL CONTINUE PROCUREMENT IN THE FOLLOWING AREAS: XM15S, XMTAR, TS DIAGNOSTIC/FMS, XMHKSHJS/ADVANCE AIRBORNE JAMMER(AAJ), XMC3S, XM17S, AND XM18A/S. THE XM15S FUNDING PROCURES NDI NECESSARY FOR SUSTAINMENT (FY97). THE XMTAR FUNDING PROCURES THE UPGRADED SOFTWARE PACKAGE FROM THE ORIGINAL EQUIPMENT MANUFACTURE (FY96). THE TS DIAGNOSTICS/CALIBRATION PROCURES THE VALIDATION, OPERATIONAL PERFORMANCE MONITOR CALIBRATION, AND MAINTENANCE OF ALL ACTUAL AND SIMULATED SYSTEMS IN DEVELOPMENT (FY96-97). THE XMHKSHJS/AJ FUNDING PROCURES AN ACTUAL ELECTRONICS PACKAGE (FY97). THE XMC3 FUNDING PROCURES THE NDI PROCESSING STATION FOR INTEGRATION OF THE THREAT SIMULATOR NETWORK (FY96) AND THE VIRTUAL ENVIRONMENT INTERFACE UNIT FOR THE REGIMENTAL ELEMENTS (FY97). THE XM17S FUNDING PROCURES AN ACTUAL ANTENNA (FY96). THE XM18A/S FUNDING PROCURES NDI SCORING PACKAGES (FY96).</p>								
DD Form 2454, JUL 88		P-1 SHOPPING LIST		UNCLASSIFIED		Page 1 of 1		Pages 1
ITEM NO 168		PAGE NO 2		OF 18		EXHIBIT P-40		

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
Weapon System Cost Elements	Ident. Code	A. Appropriation/Budget Activity Title/No. OPA/3- Threat Simulators		B. WEAPON MODEL/SERIES/POPULAR NAME-THREAT SIMULATORS		C. MANUFACTURER NAME PLANT CITY/STATE LOCATION VARIOUS		D. DATE Month/Year FEBRUARY 1995	
		FY94 Unit Cost	FY94 Qty Total Cost	FY95 Unit Cost	FY95 Qty Total Cost	FY96 Unit Cost	FY96 Qty Total Cost	FY97 Unit Cost	FY97 Qty Total Cost
ARMY THREAT SIMULATORS	A								
A. XM15S		745	1/745	554	1/554			1000	1/1000
B. XMTAR		1275	1/1275			500	1/500		
C. XM43A/S		500	1/500	113	2/226				
D. TS DIAGNOSTIC				382	1/382	912	1/912	283	1/283
E. ADVANCED AIRBORNE JAMMER				1250	2/2500			1000	1/1000
F. XMC3S				420	1/420	500	1/500	1000	1/1000
G. XM17S				1914	1/1914	1954	1/1954		
H. XM18S				200	4/800	500	4/2000		
TOTAL			2520		6796		5866		3283

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT

A. DATE

FEBRUARY 1996

C. P-1 ITEM NOMENCLATURE

TSMO - Special Eqmt for User Testing

B. APPROPRIATION/BUDGET ACTIVITY

Other Procurement Army/3 - Threat Simulators

Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
XM15 FY94 A. Acq Ant & Computer	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	745000	YES	NO	
FY95 A. Acq Ant Documents	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Apr-95	Sep-95	1	554000	YES	NO	
FY97 A. NDI Maint Equipment	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	1	1000000	YES	NO	
XMTAR FY94 B. Target Tracking Rdr	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	1275000	YES	NO	
FY96 B. Software Modification	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Feb-96	Sep-96	1	500000	YES	NO	
XM43A/S FY94 C. XM43A/S Transmitter	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	1	500000	YES	NO	
FY95 C. Night Vision Camera	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Feb-95	Jun-95	2	113000	YES	NO	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE	FEBRUARY 1995
B. APPROPRIATION/BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
Other Procurement Army/3 - Threat Simulators										TSMO - Special Eqmt for User Testing	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
TS Diagnostic/ FMS FY95											
D. Diagnostics/ Calibration Spt Testing	NRC Huntsville, AL	CPFFF/LC	MICOM, RSA, AL	Feb-95	Sep-95	1	382,000	YES	NO		
FY96 D. Diagnostics/ Calibration Spt Testing	Undetermined	CPFFF/LC	MICOM, RSA, AL	Feb-96	Sep-96	1	912,000	YES	NO		
FY97 D. Diagnostics Calibration Spt Testing	Undetermined	CPFFF/LC	MICOM, RSA, AL	Feb-97	Sep-97	1	283,000	YES	NO		
The Calibration equipment purchased each year varies as to type, thus, resulting in different unit costs.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											A. DATE		FEBRUARY 1995	
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE								
Other Procurement Army/3 - Threat Simulators						TSMO - Special Eqmt for User Testing								
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE				
XMHKS/HJS/AAJ FY95 E. Actual Aircraft MI-17	Maverick Enterprise, AL	FP/SS	MICOM, RSA, AL	Mar-95	Sep-95	2	1250000	YES	NO					
FY97 E. Airborne Electronics Equipment	Undetermined	FP/SS	MICOM, RSA, AL	Feb-97	Sep-97	1	1000000	YES	NO					
XMC3S FY95 F. Mobile Threat System Cmd Station Shelter	GTE Mt View, CA	CPFF/SS	MICOM, RSA, AL	Feb-95	Sep-95	1	420000	YES	NO					
FY96 F. Off the self Processing Station for Integ Threat Sim Net	GTE Mt View, CA	CPFF/SS	MICOM, RSA AL	Oct-95	May-96	1	500000	YES	NO					
FY97 F. Virtual Environment Interface Units	GTE MT. View, CA	CPFF/SS	MICOM, RSA AL	Oct-96	May-97	1	1000000	YES	NO					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										FEBRUARY 1995
Other Procurement Army/3 - Threat Simulator										
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
XM17S FY95	GTRI Atlanta, GA	CPFFF/SS	MICOM, RSA, AL	Apr-95	Sep-95	1	1,914,000	YES	NO	
G. XM17S Vehicle *										
FY96	GTRI Atlanta, GA	CPFFF/SS	MICOM, RSA, AL	Oct-95	May-96	1	1,954,000	YES	NO	
G. XM17S Antenna *										
XM18S FY95	DBA Melbourne, FL	T&M/SS	MICOM, RSA, AL	Feb-95	Sep-95	4	200,000	YES	NO	
H. XM18S Seeker										
FY96	DBA Melbourne, FL	T&M/SS	MICOM, RSA, AL	Oct-95	May-96	4	500,000	YES	NO	
H. XM18S NDI scoring Equipment										
D. REMARKS										
* Includes technical manuals										

[illegible]

UNCLASSIFIED										DATE FEBRUARY 1995	
REPORTS CONTROL SYMBOL DD-COMPAR1092											
BUDGET ITEM JUSTIFICATION SHEET											
APPROPRIATION / BUDGET ACTIVITY P-1 ITEM NOMENCLATURE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) (MA6700)											
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT											
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
QUANTITY											
COST (IN MILLIONS)				9 0	10.2	10.9	13 0	20.2			
DESCRIPTION: THE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) WHICH IS AN INSTRUMENTATION SYSTEM CAPABLE OF REAL TIME MONITORING FOR THE PURPOSE OF DATA COLLECTION AND ANALYSIS, AND REAL TIME CASUALTY ASSESSMENT. TEST DATA IS COLLECTED WHILE MONITORING, CONTROLLING, AND RECORDING FORCE-ON-FORCE ENGAGEMENTS IN A BATTLEFIELD ENVIRONMENT. MAIS WILL SUPPORT: CONDUCT OF ARMY/OSD OPERATIONAL FORCE DEVELOPMENT TESTS, EVALUATIONS ON CURRENT AND FUTURE TACTICAL EQUIPMENT, ASSESSMENT OF CHANGES TO DOCTRINE, ORGANIZATION, AND TRAINING METHODS.											
JUSTIFICATION: THE MAIS FY 97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY. THE MAIS WILL PROVIDE THE CAPABILITY TO MEET THE TEST AND EVALUATION NEEDS FOR FUTURE HARDWARE, TACTICS, AND ORGANIZATIONS IN AN OPERATIONAL ENVIRONMENT. THE PLAYER UNITS WILL BE MOUNTED ON GROUND VEHICLES, FIXED WING AIRCRAFT, HELICOPTERS, CREW SERVED WEAPONS AND INDIVIDUAL SOLDIERS TO TEST EMERGING AND UPGRADES TO WEAPON SYSTEMS IN A COMBAT REALISTIC FIELD ENVIRONMENT.											
DD Form 2454, JUL 88				P-1 SHOPPING LIST				Page 1 of 1 Pages			
ITEM NO 168				PAGE NO 11				OF 18			
EXHIBIT P-40											

WEAPON SYSTEM COST ANALYSIS									
EXHIBIT (P-5)					B. WEAPON		C. MANUFACTURER NAME		D. DATE
Page 1 of 1					Activity Title/No. OPA/3		LORAL		FEBRUARY 1995
					Other Support Equipment		Akron, OH		
Weapon System Cost Elements					FY 94		FY 95		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 96		FY 97		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 98		FY 99		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 00		FY 01		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 02		FY 03		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 04		FY 05		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 06		FY 07		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 08		FY 09		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 10		FY 11		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 12		FY 13		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 14		FY 15		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 16		FY 17		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 18		FY 19		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 20		FY 21		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 22		FY 23		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 24		FY 25		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 26		FY 27		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 28		FY 29		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 30		FY 31		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 32		FY 33		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 34		FY 35		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 36		FY 37		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 38		FY 39		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 40		FY 41		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 42		FY 43		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 44		FY 45		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 46		FY 47		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 48		FY 49		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 50		FY 51		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 52		FY 53		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 54		FY 55		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 56		FY 57		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 58		FY 59		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 60		FY 61		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 62		FY 63		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 64		FY 65		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 66		FY 67		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 68		FY 69		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 70		FY 71		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 72		FY 73		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 74		FY 75		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 76		FY 77		
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					FY 78		FY 79		
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					FY 80		FY 81		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 82		FY 83		
					Unit Cost		Unit Cost		
					Qty		Qty		
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					FY 84		FY 85		
					Unit Cost		Unit Cost		
					Qty		Qty		
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					FY 86		FY 87		
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					Qty		Qty		
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					FY 88		FY 89		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 90		FY 91		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 92		FY 93		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 94		FY 95		
					Unit Cost		Unit Cost		
					Qty		Qty		
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					FY 96		FY 97		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 98		FY 99		
					Unit Cost		Unit Cost		
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					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 08		FY 09		
					Unit Cost		Unit Cost		
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					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 24		FY 25		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 26		FY 27		
					Unit Cost		Unit Cost		
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					FY 28		FY 29		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 30		FY 31		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 32		FY 33		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 34		FY 35		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 36		FY 37		
					Unit Cost		Unit Cost		
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					FY 38		FY 39		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 40		FY 41		
					Unit Cost		Unit Cost		
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					Unit Cost		Unit Cost		
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					FY 44		FY 45		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 46		FY 47		
					Unit Cost		Unit Cost		
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					Total Cost		Total Cost		
					FY 48		FY 49		
					Unit Cost		Unit Cost		
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					FY 50		FY 51		
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					Qty		Qty		
					Total Cost		Total Cost		
					FY 56		FY 57		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 58		FY 59		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 60		FY 61		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 62		FY 63		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		
					FY 64		FY 65		
					Unit Cost		Unit Cost		
					Qty		Qty		
					Total Cost		Total Cost		

BUDGET PROCUREMENT HISTORY AND PLANNING ELEMENT (P-5A)

A. DATE

FEBRUARY 1996

B. APPROPRIATION/BUDGET ACTIVITY Other Procurement Army: 3 - Other Support Equipment					C. P-1 ITEM NOMENCLATURE MAIS					(MA6700)		
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS VAILABL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE		
1. MUTI												
A. C3 Central Instrumentation Facility/FY97	LORAL, AKRON, OH	OPTION*	Naval Air Warfare Center, Orlando, FL	Feb-97	Jan-99	1	4,500,000	NO	YES	Dec-96		
B. Ground Vehicle Player Unit /FY97	LORAL, AKRON, OH	OPTION*	Naval Air Warfare Center, Orlando, FL	Feb-97	May-98	52	84,000	NO	YES	Dec-96		

D. REMARKS

* Exercise production option to the Research and Development contract which was competitively awarded June 1991.

CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995		REPORT CONTROL SYMBOL DD-COM(AR) 1092	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE MAIS		(MA6700)	
CURRENT DEVELOPMENT AND TEST STATUS					
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) MILESTONE III AVAIL DATE OF TECH DATA PKG (T OR PERFORMANCE SPECIFICATIONS		CURRENT Jun-96 Oct-96 Dec-96 Dec-96		LAST REPORTED Jun-96 Oct-96 Dec-96 Dec-96	
				REASON FOR DELAY	
ESTIMATED DATE OF APPROVAL FOR SERVICE USE Jan 97					
EQUIPMENT ITEM(S) TO BE REPLACED NONE					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED					
DEVELOPMENT CONTRACT INFORMATION					
CONTRACTOR NAME		PLANT LOCATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)	
LORAL SYSTEMS		AKRON OHIO		THRU PYR 68.800	
				CY 95 20.394	
				BY1 96 23.680	
				BY2 97 5.077	
				BEYOND BY'S CONTINUING	
TOTAL RDT&E FUNDING				68.800	
				20.394	
				23.680	
				5.077	
				CONTINUING	
REMARKS: RELATED PROGRAMS/PE: P.E. 0604759 D986					
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REPORTS CONTROL SYMBOL DD-COMPIARI1092		UNCLASSIFIED		DATE FEBRUARY 1995					
BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE OPTEC - SPECIAL EQUIPMENT FOR USER TEST (MA6700)							
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT									
QUANTITY		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
		2.4	3.6	3.3	1.8	2.4	2.4	2.5	4.1
COST (IN MILLIONS)									
<p>DESCRIPTION: TO REMAIN ABREAST OF NEW WEAPONS AND COMMUNICATIONS SYSTEMS, THE TESTER REQUIRES ADVANCED TECHNOLOGY INSERTION INTO INSTRUMENTATION PRIOR TO THE SYSTEM TESTS. THIS PROJECT PROVIDES A COST EFFECTIVE DATA COLLECTION, TELEMETRY, AND PROCESSING CAPABILITY TO CONDUCT CREDIBLE AND ROBUST OPERATIONAL TEST AS REQUIRED BY THE DOD AND CONGRESS. IT MODERNIZES OPTEC'S INSTRUMENTATION CAPABILITY AND DEVELOPS NON-MAJOR INSTRUMENTATION THAT IS NON-INTRUSIVE, MORE RELIABLE, AND PROVIDES NEAR REAL-TIME ACCESS OF DATA FOR TEST CONTROL AND ANALYSIS BY INTEGRATING COMBAT SIMULATORS INTO OPERATIONAL TESTS AND BY INSERTING TECHNOLOGY ADVANCES INTO OPTEC INSTRUMENTATION. IT SUPPORTS REAL-TIME CASUALTY ASSESSMENT (RTCA) PROVIDING REALISTIC SIMULATED ATTRITION OF FORCES. FUNDING PROVIDES A TEST CAPABILITY WHICH REQUIRES LESS MANPOWER TO OPERATE AS NECESSITATED BY OPTEC DOWNSIZING OF PERSONNEL.</p> <p>JUSTIFICATION: FUNDING WILL PROVIDE OPTEC'S ABILITY TO ASSESS PERFORMANCE OF THE LONGBOW APACHE HELICOPTER, SPECIAL OPERATIONS AIRCRAFT, ARMY TACTICAL COMMAND AND CONTROL SYSTEMS, AND OTHER HIGH PRIORITY WEAPONS SYSTEMS AGAINST A CREDIBLE THREAT ON A REALISTIC BATTLEFIELD.</p> <p>THE INCREASED FUNDING LEVEL FOR OPTEC'S LIVE OPERATIONS TEST INSTRUMENTATION PROGRAM (OTIP) STARTING IN FY 1996 BEGINS PROCUREMENT OF A TARGET IDENTIFICATION AND RTCA PAIRING SYSTEM FOR DISMOUNTED TROOPS AND CREW-SERVED WEAPONS ARE EFFECTIVE IN BATTLEFIELD OBSCURANTS: SMOKE, DUST, AND FOG. IT CONTINUES THE PROCUREMENT OF NON-INTRUSIVE DATA COLLECTION AND TELEMETRY SYSTEMS INITIATED IN FY 1995. THIS IS ESSENTIAL TO ENSURE COMMAND AND CONTROL AND SYSTEM PERFORMANCE MEASURES OF EFFECTIVENESS (MOEs) CAN BE EVALUATED WITH MEASURABLE, OBJECTIVE, AND RESPONSIVE ATTRIBUTES AS OPPOSED TO SUBJECTIVE ESTIMATES. IT PROVIDES AN INSTRUMENTED CAPABILITY TO CAPTURE DATA AT REMOTE, MOBILE, TACTICAL FIELD LOCATIONS, AND ELECTRONICALLY TRANSMIT THE DATA TO RECEIVING, CONTROL, AND EVALUATION STATIONS AT THE RESPECTIVE TEST DIRECTORATES. THESE DIRECTORATES ARE LOCATED AT FORT BLISS, FORT HUACHUCA, AND FORT SILL. THIS FUNDING ALSO COMPLETES PROCUREMENT OF OPTEC'S INTERIM RTCA CAPABILITY THAT SUPPORTS THE BATTLEFIELD COMBAT IDENTIFICATION SYSTEM (BCIS), ARMORED GUN SYSTEM (AGS), BRADLEY FIGHTING VEHICLE SYSTEM (BFVS) AND OTHER FORCE-ON-FORCE TESTS.</p>									
DD Form 2454, JUL 88		P-1 SHOPPING LIST				UNCLASSIFIED			
ITEM NO 168		PAGE NO 16				OF 18			
		Page 1				of 1			
						Pages EXHIBIT P-40			

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) Page 1 of 2										
Weapon System Cost Elements		Ident. Code	FY94		FY95		FY96		FY97	
			Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost
K-Band TEC Obscuration Pairing Sys (K-Tops)		A	150000	4\600	500000	2\1000	1949000	1\1949		
Range Measurement Sys (RMS) A/B/D Stations		A	40000	20\800						
Low Light Documentary Video&PhotographySys		A	75000	1\175						
GPS Tracking System		A	200000	1\1200						
Integrated Log Sys Dlg Recording&Dis Sys(ILSDRD		A	100000	1\1100						
Video Acq & Image Processor Sys		A	60000	1\160	100000	1\1100	91250	4\365	75000	4\300
Electronic Warfare Mon Fac Signal Processor		A	150000	1\1150						
AI/EWTS Control Monitor System		A	81000	1\181						
Threat Helicopter Engines		A	167000	1\167						
Mobile Tech (MTEC) RTCA Capability		A			700000	1\1700				
Plastic Injection Molding Machine		A			140000	1\1140				
Distributed Test Support System		A			120000	1\1120				
Threat Simulator Engine (XM-42A)		A			157000	1\1157				
Vertical Incidence Skywave Antenna, HF		A			60000	1\160				
Automatic Drafting System Processor		A			66000	1\166				
GPS Interface,Reference Revcr, & Telemetry Sys		A			473000	1\473				

WEAPON SYSTEM COST ANALYSIS

EXHIBIT C

Page 2 of 2

A. Appropriation/Budget

Activity Title/No.

OPA3/Other Spt Equip

B. WEAPON

MODEL/SERIES/POPULAR

NAME OPTEC-SpEquipUserTst

C. MANUFACTURER NAME

[illegible]

Various

D. DATE

Month

FEBRUARY 1996

Weapon System Cost Elements	Ident. Code	FY94		FY95		FY96		FY97		Qty Total Cost
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	
OTSA Radar Signal Generator	A					155000	11155			
OTSA Optical Work Station	A					100000	11100			
OTSA Foreign Equipment	A					190000	11190	658000	1/658	
Inertial GPS Intergration	A			161666	3/485	90000	61540	94333	91849	
OTEMS	A	1050	20121							
Processor Motor Boards	A	7800	141109							
Land Server Upgrade	A	45000	1145							
AI/EWTS UPGRADES	A			115000	3/345					
TOTAL			2408		3646		3299		1807	

Reports Control		BUDGET ITEM JUSTIFICATION SHEET					February 1995					
Symbol DD-COMP (AR) 1092		Appropriation/Budget Activity : Other Procurement, Army Activity 3, Other Support Equipment					P-1 Item Nomenclature: OPA Initial Spares (MY0035)					
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01			
QUANTITY												
COST (MILLIONS)		0	68.0	0	0	0	0	0	0			
DESCRIPTION:		Provides for procurement of spares to support initial fielding of new or modified end items.										
JUSTIFICATION:		The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:										
		FY 94	FY 95	FY 96	FY 97							
FAAD C2		0.0	1.5	0.0	0.0	0.0						
CSSCS		0.0	1.4	0.0	0.0	0.0						
AFATDS		0.0	1.9	0.0	0.0	0.0						
FA C2 SYS AFATDS		0.0	0.4	0.0	0.0	0.0						
IMETS (TIARA)		0.0	0.7	0.0	0.0	0.0						
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)		0.0	1.4	0.0	0.0	0.0						
SINGGARS		0.0	1.9	0.0	0.0	0.0						
DEFENSE SATELLITE COMMUNICATIONS		0.0	9.6	0.0	0.0	0.0						
NAVSTAR GLOBAL COMMUNICATIONS		0.0	0.4	0.0	0.0	0.0						
TRI-TAC		0.0	10.3	0.0	0.0	0.0						
ARMY DATA DISTRIBUTION SYSTEM (ADDS)		0.0	0.5	0.0	0.0	0.0						
TACSATCOM		0.0	2.2	0.0	0.0	0.0						
JOINT STARS (ARMY) (TIARA)		0.0	3.1	0.0	0.0	0.0						
NIGHT VISION DEVICES		0.0	2.3	0.0	0.0	0.0						

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995		
Appropriation/Budget Activity : Other Procurement, Army Activity 3, Other Support Equipment		P-1 Item Nomenclature: OPA Initial Spares (MY0035)							
QUANTITY	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
COST (MILLIONS)									
FIREFINDER			FY 94	FY 95	FY 96	FY 97	FY 98	FY 97	
SIGNAL WARFARE EQUIP			0.0	0.7	0.0	0.0	0.0	0.0	
PM EW/RSTA PEO IEW			0.0	11.1	0.0	0.0	0.0	0.0	
GROUND BASED COMMON SENSOR			0.0	0.1	0.0	0.0	0.0	0.0	
EUCOM CMD CTRS			0.0	0.9	0.0	0.0	0.0	0.0	
OPTADS MCS			0.0	0.2	0.0	0.0	0.0	0.0	
POWER PROJECTION C4			0.0	0.0	0.0	0.0	0.0	0.0	
DMS ARMY			0.0	1.3	0.0	0.0	0.0	0.0	
CORPS/THEATER ADP SVC CTR (CTASC)			0.0	0.2	0.0	0.0	0.0	0.0	
LOGTECH			0.0	1.2	0.0	0.0	0.0	0.0	
STAMIS TACTICAL COMPUTERS			0.0	0.2	0.0	0.0	0.0	0.0	
TACCIMS			0.0	3.1	0.0	0.0	0.0	0.0	
WW TECH CON IMP PROG (WWTCIP)			0.0	0.1	0.0	0.0	0.0	0.0	
TMDE MODERNIZATION (TMOD)			0.0	0.1	0.0	0.0	0.0	0.0	
STRATEGIC C2 FACILITIES			0.0	2.5	0.0	0.0	0.0	0.0	
COMSEC INFO SECURITY			0.0	0.2	0.0	0.0	0.0	0.0	
TROJAN (TIARA)			0.0	3.8	0.0	0.0	0.0	0.0	
AN/TYQ-52			0.0	1.6	0.0	0.0	0.0	0.0	
NBC PROTECTION SYSTEM			0.0	1.0	0.0	0.0	0.0	0.0	
NBC DECON SYSTEM			0.0	0.2	0.0	0.0	0.0	0.0	
NBC CONTAMINATION AVOID			0.0	0.2	0.0	0.0	0.0	0.0	
			0.0	0.8	0.0	0.0	0.0	0.0	

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					February 1995		
Appropriation/Budget Activity : Other Procurement, Army Activity 3, Other Support Equipment		P-1 Item Nomenclature: OPA Initial Spares (MY0035)							
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	
QUANTITY									
COST (MILLIONS)									
DETECTING SET, MINE, AN/PS-12									
ITEMS LESS THAN \$2.0M (CONST EQUIP)									
ITEMS LESS THAN \$2.0M (MHE)									
SMOKE OBSCURE TARGET									
TOTAL									

REPORTS CONTROL SYMBOL DD-COMP(AR)1092		UNCLASSIFIED B U D G E T I T E M J U S T I F I C A T I O N S H E E T					DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE TRACTOR VAPOR						(MA8975)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01	
QUANTITY								
COST(IN MILLIONS)			2.2	4.0	2.8	6.6	5.0 / 2.7	
DESCRIPTION: Funds will provide for the replacement of critical components that are approaching end of shelf-life and new equipment required to maintain mission capability for a classified program. Current industry practice of minimizing inventory and manufacturing only to order has caused revisions in operational plans that formerly depended on rapid procurements. Reduced demand for heavy industrial process components and the subsequent shrinkage of the U.S. manufacturing base in casting, forging, and fabrication have caused lead times to exceed the acceptable mobilization period. Procurement of these components will ensure successful mission responses to emergency situations.								
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092		B U D G E T I T E M J U S T I F I C A T I O N S H E E T					DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 Other Support Equipment		P-1 ITEM NOMENCLATURE NATURAL GAS UTILIZATION (NA9760)						
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01	
QUANTITY								
COST(IN MILLIONS)	10.0	2.5						
DESCRIPTION: Funds the procurement of natural gas chillers and other non-developmental natural gas fuel cells for air conditioning and power generation at military installations.								
DD Form 2454, JUL 88		P-1 SHOPPING LIST ITEM NO 172 PAGE NO 1 OF 1			Page of Pages EXHIBIT P-40			